



FEB 1994

**FOURTH QUARTER 1993 PROGRESS REPORT
L.E. CARPENTER SITE
WHARTON, NEW JERSEY**

Prepared on behalf of L.E. CARPENTER AND COMPANY
for the New Jersey Department of Environmental
Protection and Energy

February 1994

W.O. No.: 06720-013-001

Prepared by:

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346128





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L.E. CARPENTER QUARTERLY REPORT

1.0 GROUNDWATER ACTIVITIES

Quarterly sampling of groundwater monitoring wells MW-4, MW-14S, MW-22, and MW-25 occurred on 16 December 1993. On 27 December 1993, WESTON personnel conducted quarterly groundwater levels and product thickness measurements at the L.E. Carpenter site. All groundwater samples collected were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX). In addition, this report presents a summary of product recovery activities and the expansion effort undertaken on the immiscible product recovery system.

1.1 GROUNDWATER LEVEL MEASUREMENTS

Water level and product thickness measurements were collected using an oil/water interface probe at all of the wells and well points at the L.E. Carpenter site. At MW-12S, because of the nature of the Light Non Aqueous Phase Liquid (LNAPL), the product thickness was measured by use of a bailer and measuring rule. Water level measurements were also collected at eight (8) staff gauges and the RP-1 measurement point which is marked on the concrete wall adjacent to the Rockaway River. Surface water elevations collected at the staff gauges and RP-1, were determined by measuring the vertical distance between the surveyed top of the staff gauge or paint mark, and the water surface.

1.2 GROUNDWATER SAMPLING

Groundwater monitoring wells MW-4, MW-14S, MW-22, and MW-25 were sampled for benzene, toluene, ethylbenzene, and xylene (BTEX) analysis (EPA Method 602) on 16 December 1993. Dedicated Well Wizard® bladder pumps were utilized to purge a minimum of three well volumes prior to sample collection. Samples were collected in accordance with NJDEPE "Field Sampling Procedures Manual" dated May 1992.

All samples were placed into 40 milliliter glass vials which contain a sufficient amount of hydrochloric acid to achieve a sample pH of 2 or less. After collection, the samples were immediately placed in a designated sample cooler and preserved at four degrees centigrade.

All samples were shipped with the necessary trip blank to Weston Analytics in Lionville, PA via overnight courier following chain-of-custody procedures. Groundwater samples collected at the site were analyzed at the Gulf Coast Analytical Laboratory in University Park, Illinois for BTEX analysis.



1.3 PRODUCT RECOVERY

No significant operational difficulties were encountered with the Enhanced Immiscible Product Recovery System (EIPRS) since reinstallation of the central pneumatic control unit on 22 October 1993. Approximately 100 gallons of product were recovered during the 4th quarter of 1993.

1.4 PRODUCT RECOVERY SYSTEM EXPANSION

To further improve product recovery and to prevent product migration off site, WESTON plans to modify and upgrade the current immiscible product recovery system. Presently, product recovery pumps are being utilized in wells MW-6, MW-10, MW-11S, RW-2, and RW-3. WESTON plans to continue product recovery at all of the abovementioned points with the exception of MW-6. Additional 4 inch and 2 inch product recovery pumps are being purchased for wells CW-1, CW-2, CW-3, WP-B4, and MW-3. Also, the 5 diaphragm pumps which control product recovery will be modified to allow product recovery from two wells by each pump instead of one. These points have been chosen due to their location, historical product thicknesses in their respective well columns, and their recharge rate as determined by baildown tests. The line of recovery points spanning from RW-3 to CW-3 along the air products drainage ditch will be used to effectively prevent migration of product off site. Equipment required for the system expansion was ordered from Clean Environment Engineers Inc., Oakland, California, on 26 January 1994 and has been delivered to WESTON. Due to recent inclement weather conditions including heavy snowfall and subfreezing temperatures, system expansion installation activities have been temporarily suspended and will commence as weather permits.



2.0 RESULTS

2.1 GROUNDWATER ELEVATION DATA

Water level elevations and product thickness data for the 27 December 1993 measurement event are presented in Table 1 of Appendix A. Corrected water level elevations for monitoring points containing Light Non Aqueous Phase Liquids (LNAPLS) were calculated using the method presented in the previous quarterly reports (WESTON, April 1992). At surface water monitoring points DC-P3, DC-P4, DC-P5, RP-01, RP-02, and RP-03, ice was encountered, and as a result, measurements reflect the depth to the ice surface.

2.2 BTEX ANALYTICAL RESULTS

Analytical results for groundwater samples collected from MW-4, MW-14S, MW-22, and MW-25 are presented in Appendix C. The data is summarized in Tables 2-1 and 3-1. The highest BTEX concentration was detected in MW-22 (1.49 ppm total). BTEX was also detected in MW-14S (0.45 ppm total), MW-25 (0.26 ppm total), and was not detected at concentrations above reporting limits in MW-4.



TABLE 2-1

SUMMARY OF BTEX ANALYTICAL RESULTS
FOURTH QUARTER 1994
L.E. CARPENTER SITE, WHARTON, NEW JERSEY

| Parameter | Concentration (ppm) | | | |
|--------------|---------------------|--------|-------|-------|
| | MW-4 | MW-14S | MW-22 | MW-25 |
| Benzene | ND | BRL | BRL | BRL |
| Toluene | ND | BRL | BRL | ND |
| Ethylbenzene | BRL | .086 | .290 | ND |
| Xylene | BRL | .360 | 1.2 | .260 |
| Total BTEX | ND/BRL | .447 | 1.49 | .260 |

Data Qualifiers

ND = Compound was analyzed for but not detected.

BRL = Below Reporting Limits.



3.0 DISCUSSION

3.1 GROUNDWATER FLOW MEASUREMENT

Water level measurements were collected at each well, well point, and surface water gauge on 27 December 1993. Appendix A presents the water level measurement data. Equipotential maps of the shallow, intermediate and deep aquifer zones are presented in Figures 1,2, and 3; respectively of Appendix B.

Corrected water level elevations were compared to findings from the 24 September 1993 measurement event. (Third Quarter 1993). At each monitoring point, with the exception of MW-12S, RP-02, and RP-03, there is a rise in corrected water level elevations of approximately 2 feet. The range of these corrected water level elevation was between 0.50 feet (DC-P4) and 5.23 feet (MW-12I).

At MW-12I, a comparison of corrected water level elevations between third quarter and this quarter indicate that a large fluctuation in water (5.32 ft) levels has occurred. As a result of this uncharacteristically large fluctuation, data from MW-12I was not used in construction of the equipotential map of the intermediate aquifer zone. At monitoring locations RP-02 and RP-03, an increase in water level elevations were not measured. At these locations, the calculated water level elevations were the same between this quarter and the third quarter. The water level elevations in RP-02 and RP-03 were 625.63 feet m.s.l. and 624.19 feet m.s.l, respectively.

3.2 PRODUCT DELINEATION ACTIVITIES

Product delineation was performed by measuring for LNAPL at each monitoring point. With the exception of MW-12S, product thickness was measured by an oil/water interface probe to one hundredth (0.01) of a foot. At MW-12S, product thickness was measured by partly submerging a transparent bailer and actually measuring the inner of the product layer with a ruler marked to one hundredth of a foot. Appendix A provides the product thickness measurements. Figure 4 in Appendix B provides a isopach map depicting product thickness.

Product thickness were measured after the passive recovery system was shut down for at least 24 hours. Product thicknesses ranged between a sheen (RW-03) and 5.28 feet (MW-11S). Product level thicknesses varied within the monitoring points between the third quarter and this measurement event. Increases in product thicknesses were encountered in MW-01 (1.25 feet), MW-06 (0.61 Feet), MW-11S (0.87 feet), RW-2 (0.66 feet), WP-A1 (1.45 feet), WP-A4 (1.60 feet), WP-A6 (2.60 feet), WP-A7 (0.37 feet), WP-A8 (3.91 feet), WP-A9 (0.04 feet), and WP-B4 (2.36 feet). Product thickness decreased in MW-03 (2.55 feet), MW-04 (0.03 feet), MW-10 (1.10 feet), WP-A2 (0.28 feet), WP-A5 (0.02 feet), WP-B1 (1.79 feet), WP-B3 (2.80 feet), WP-B5 (0.93 feet), WP-B6 (0.13 feet), WP-B7 (3.07 feet), and WP-B9 (2.73 feet).



3.3 SUMMARY

The analytical results for the fourth quarter 1993 are presented in Table 2-1. A summary of analytical data collected since the first quarter 1993 are presented in Table 3-1. In general, total BTEX concentrations were slightly higher in MW-14S and MW-25 in comparison with concentrations found in the third quarter 1993. Specifically, ethylbenzene and xylene were discovered in MW-14S at concentrations of 0.86 ppm and .360 ppm respectively as compared to being undetected in samples collected during the third quarter of 1993. Also, xylene was confirmed present in MW-25 at a concentration of 0.260 ppm while being undetected in the third quarter of 1993. The concentration of total BTEX was lower in MW-4 (ND/BRL) as compared to total BTEX results from the third quarter (0.135 ppm). Specifically, benzene and toluene were undetected and concentrations of ethylbenzene and xylene were below reporting limits this quarter as compared to their respective concentrations of .0054 ppm, and .0061 ppm confirmed present during the third quarter of 1993. Total BTEX concentrations in MW-22 (1.49 ppm) in the fourth quarter of 1993 was consistent with the total BTEX concentration of 1.50 ppm observed during the third quarter of 1993.



TABLE 3-1

COMPARISON OF MONITORING WELL DATA SINCE FOURTH QUARTER 1992
L.E. CARPENTER

All results in mg/l (ppm)

| | 1stQ93 | 2ndQ93 | 3rdQ93 | 4thQ94 |
|---------------|--------|--------|--------|--------|
| MW-4 | | | | |
| Benzene | ND | ND | ND | ND |
| Toluene | ND | .002 | .002 | ND |
| Ethylbenzene | .012 | ND | .0054 | BRL |
| Xylene | .0054 | .0024 | .0061 | BRL |
| Total BTEX | .0174 | .0044 | .0135 | ND/BRL |
| MW-14S | | | | |
| Benzene | ND | ND | ND | BRL |
| Toluene | ND | ND | ND | BRL |
| Ethylbenzene | ND | ND | ND | .086 |
| Xylene | ND | .014 | ND | .360 |
| Total BTEX | ND | .014 | ND | .447 |
| MW-22 | | | | |
| Benzene | ND | ND | ND | BRL |
| Toluene | ND | .340 | .0012 | BRL |
| Ethylbenzene | .120 | ND | .3000 | .290 |
| Xylene | .440 | 1.0 | 1.200 | 1.20 |
| Total BTEX | .560 | 1.34 | 1.50 | 1.49 |
| MW-25 | | | | |
| Benzene | ND | ND | ND | BRL |
| Toluene | ND | ND | ND | ND |
| Ethylbenzene | .013 | ND | ND | ND |
| Xylene | .024 | ND | ND | .260 |
| Total BTEX | .037 | ND | ND | .260 |
| MW-15S | | | | |
| Benzene | ND | na | ND | na |
| Toluene | ND | na | ND | na |
| Ethylbenzene | .280 | na | .0017 | na |
| Xylene | .810 | na | .0051 | na |
| Total BTEX | 1.09 | na | .0068 | na |

Notes:

ND - Not detected.

BRL - Below Reporting Limits.

APPENDIX A

WATER LEVEL AND PRODUCT THICKNESS DATA

TABLE 1. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA,
MEASURED ON DECEMBER 27, 1993, L.E. CARPENTER SITE, WHARTON, NEW JERSEY

| WELL | MEASURING PT. ELEVATION (FT MSL) | DEPTH TO PRODUCT (FT) | DEPTH TO WATER (FT) | PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT) | OBSERVED WATER LEVEL ELEVATION (FT MSL) | CORRECTED WATER LEVEL ELEVATION * (FT MSL) |
|--------|----------------------------------------|-----------------------------|------------------------|----------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| MW-001 | 638.97 | 12.80 | 14.66 | 1.86 | 624.31 | 625.91 |
| MW-002 | 633.39 | | 8.06 | none | 625.33 | 625.33 |
| MW-003 | 632.27 | 7.03 | 7.88 | 0.85 | 624.39 | 625.12 |
| MW-004 | 632.31 | | 6.72 | none | 625.59 | 625.59 |
| MW-005 | 632.20 | | 6.35 | none | 625.85 | 625.85 |
| MW-006 | 632.77 | 7.28 | 7.89 | 0.61 | 624.88 | 625.40 |
| MW-007 | 630.68 | | 5.18 | none | 625.50 | 625.50 |
| MW-008 | 630.56 | | 4.33 | none | 626.23 | 626.23 |
| MW-009 | 631.69 | | 5.70 | none | 625.99 | 625.99 |
| MW-010 | 633.65 | 8.05 | 8.24 | 0.19 | 625.41 | 625.57 |
| MW-11S | 632.96 | 7.42 | 12.70 | 5.28 | 620.26 | 624.80 |
| MW-11I | 632.82 | | 7.24 | none | 625.58 | 625.58 |
| MW-11D | 632.42 | | 4.40 | none | 628.02 | 628.02 |
| MW-12S | 633.18 | 7.64 | 7.66 | 0.02 | 625.52 | 625.54 |
| MW-12I | 633.06 | | 4.40 | none | 628.66 | 628.66 |
| MW-13S | 631.23 | | 5.70 | none | 625.53 | 625.53 |
| MW-13I | 630.66 | | 5.35 | none | 625.31 | 625.31 |
| MW-14S | 628.41 | | 3.55 | none | 624.86 | 624.86 |
| MW-14I | 628.23 | | 3.05 | none | 625.18 | 625.18 |
| MW-14D | 628.53 | | 0.31 | none | 628.22 | 628.22 |
| MW-15S | 636.77 | | 10.90 | none | 625.87 | 625.87 |
| MW-15I | 636.66 | | 10.79 | none | 625.87 | 625.87 |
| MW-16S | 634.47 | | 8.11 | none | 626.36 | 626.36 |
| MW-16I | 634.96 | | 8.55 | none | 626.41 | 626.41 |
| MW-17S | 634.79 | | 8.64 | none | 626.15 | 626.15 |
| MW-17D | 634.86 | | 8.74 | none | 626.12 | 626.12 |
| MW-18S | 631.26 | | 5.73 | none | 625.53 | 625.53 |
| MW-18I | 631.04 | | 5.27 | none | 625.77 | 625.77 |
| MW-18D | 630.77 | | 3.42 | none | 627.35 | 627.35 |
| MW-019 | 638.88 | | 12.07 | none | 626.81 | 626.81 |
| MW-020 | 636.77 | | 10.34 | none | 626.43 | 626.43 |
| MW-021 | 628.80 | | 3.90 | none | 624.90 | 624.90 |
| MW-022 | 628.74 | | 3.57 | none | 625.17 | 625.17 |
| MW-023 | 630.64 | | 3.12 | none | 627.52 | 627.52 |
| MW-024 | 629.03 | | 4.15 | none | 624.88 | 624.88 |
| MW-025 | 627.33 | | 2.28 | none | 625.05 | 625.05 |
| RW-001 | 637.38 | | 11.42 | none | 625.96 | 625.96 |
| RW-002 | 631.68 | 6.37 | 7.12 | 0.75 | 624.56 | 625.21 |
| RW-003 | 631.99 | | 6.64 | SHEEN | 625.35 | 625.35 |
| GEI-1I | 630.78 | | 4.94 | none | 625.84 | 625.84 |
| GEI-2S | 637.67 | | 10.92 | none | 626.75 | 626.75 |
| GEI-2I | 638.20 | | 11.00 | none | 627.20 | 627.20 |
| GEI-3I | 639.85 | | 13.21 | none | 626.64 | 626.64 |

* Estimated water level elevation calculated using a product specific gravity of 0.86.

TABLE 1, CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA,
MEASURED ON DECEMBER 27, 1993, L.E. CARPENTER SITE, WHARTON, NEW JERSEY

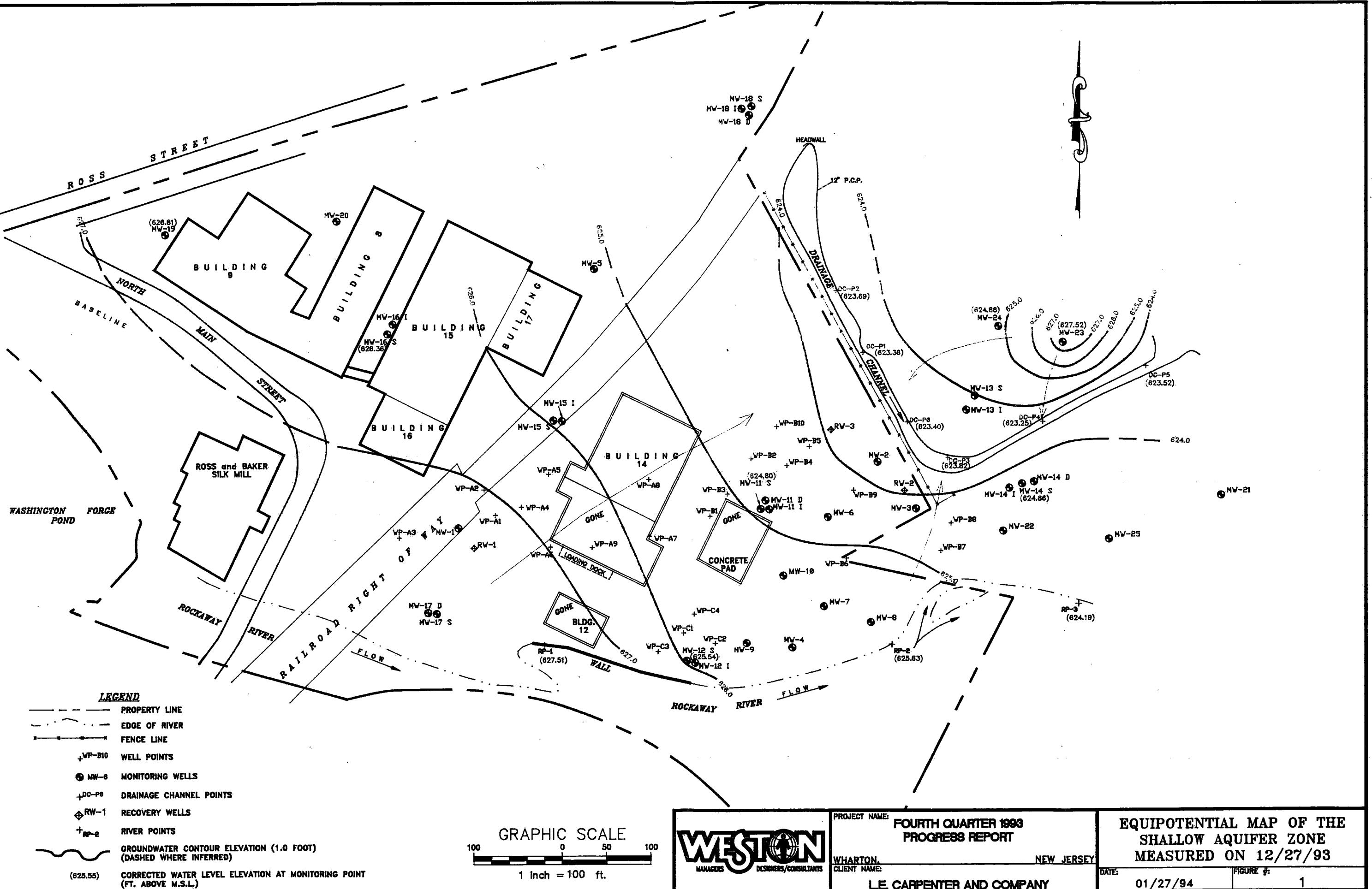
| WELL POINT | MEASURING PT. ELEVATION (FT MSL) | DEPTH TO PRODUCT (FT) | DEPTH TO WATER (FT) | PRODUCT THICKNESS OR SHEEN OBSERVATIONS (FT) | OBSERVED WATER LEVEL ELEVATION (FT MSL) | CORRECTED WATER LEVEL ELEVATION * (FT MSL) |
|------------|----------------------------------------|-----------------------------|------------------------|----------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| WP-A1 | 635.81 | 9.82 | 11.30 | 1.48 | 624.51 | 625.78 |
| WP-A2 | 639.20 | 13.24 | 13.84 | 0.60 | 625.36 | 625.88 |
| WP-A3 | 635.56 | | 9.38 | none | 626.18 | 626.18 |
| WP-A4 | 635.10 | 8.02 | 11.30 | 3.28 | 623.80 | 626.62 |
| WP-A5 | 637.85 | | 11.90 | none | 625.95 | 625.95 |
| WP-A6 | 637.28 | 11.22 | 14.40 | 3.18 | 622.88 | 625.61 |
| WP-A7 | 634.88 | 9.13 | 9.50 | 0.37 | 625.38 | 625.70 |
| WP-A8 | 637.56 | 11.63 | 15.54 | 3.91 | 622.02 | 625.38 |
| WP-A9 | 639.45 | 13.44 | 13.84 | 0.04 | 625.61 | 625.64 |
| WP-B1 | 633.65 | 7.88 | 8.10 | 0.22 | 625.55 | 625.74 |
| WP-B2 | 632.25 | | 6.66 | none | 625.59 | 625.59 |
| WP-B3 | 633.33 | 7.62 | 7.82 | 0.20 | 625.51 | 625.68 |
| WP-B4 | 631.92 | 5.94 | 10.12 | 4.18 | 621.80 | 625.39 |
| WP-B5 | 632.11 | 6.54 | 7.36 | 0.82 | 624.75 | 625.46 |
| WP-B6 | 631.86 | | 6.14 | none | 625.72 | 625.72 |
| WP-B7 | 629.49 | 4.14 | 4.65 | 0.51 | 624.84 | 625.26 |
| WP-B8 | 629.29 | | 4.08 | none | 625.21 | 625.21 |
| WP-B9 | 632.37 | 6.90 | 7.96 | 1.06 | 624.41 | 625.32 |
| WP-B10 | 632.63 | | 7.16 | none | 625.47 | 625.47 |
| WP-C1 | 634.44 | | 8.08 | none | 626.36 | 626.36 |
| WP-C2 | 634.46 | | 7.80 | none | 626.66 | 626.66 |
| WP-C3 | 632.64 | | 6.02 | none | 626.62 | 626.62 |
| WP-C4 | 634.59 | | 8.80 | none | 625.79 | 625.79 |
| CW-1 | not yet surveyed | | 8.88 | sheen | NA | NA |
| CW-2 | not yet surveyed | | 10.10 | sheen | NA | NA |
| CW-3 | not yet surveyed | | 8.01 | sheen | NA | NA |

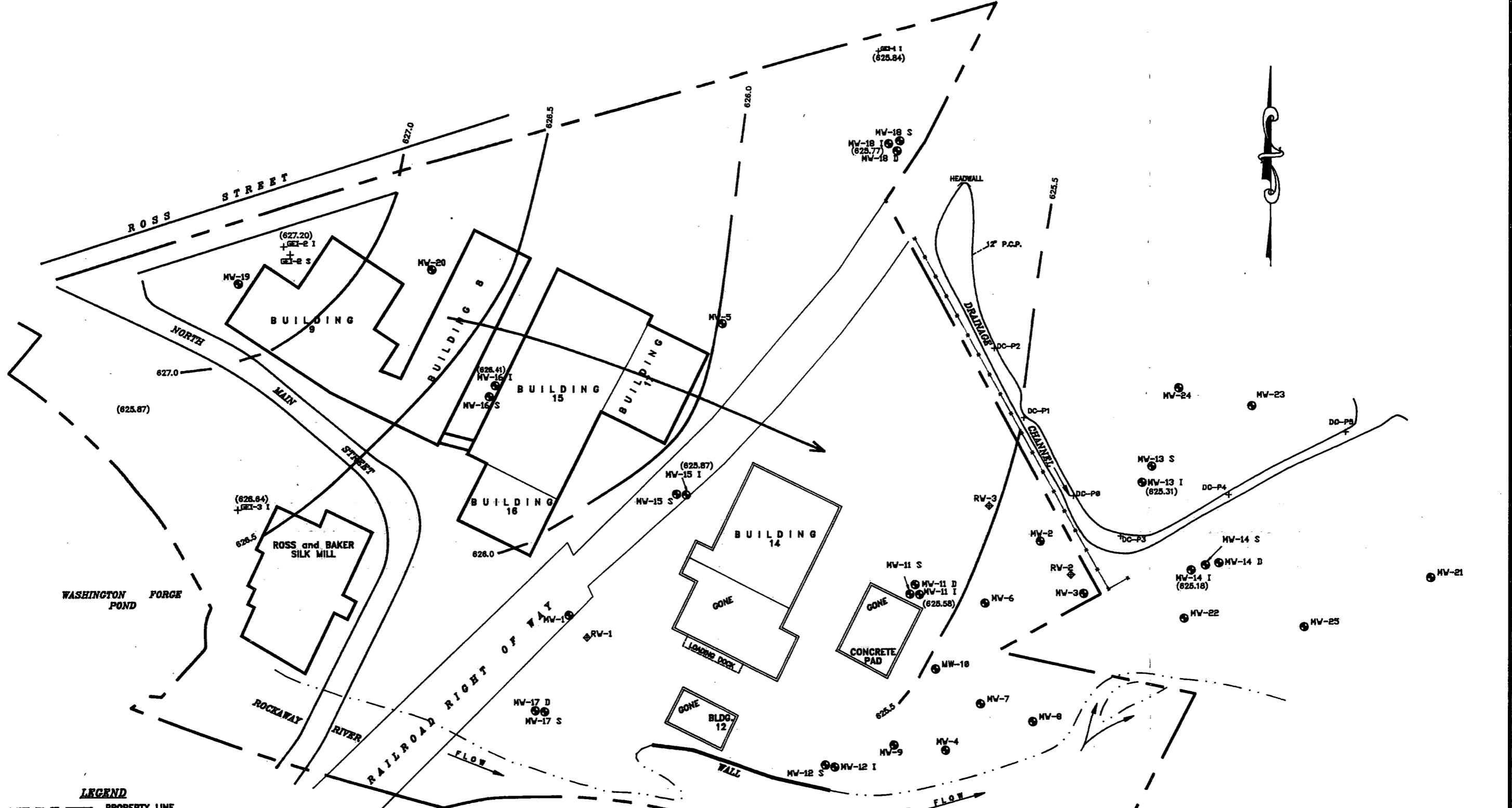
* Estimated water level elevation calculated using a product specific gravity of 0.86.

| MEASURING POINT | ELEVATION OF MEASURING POINT | DEPTH TO WATER | WATER LEVEL ELEVATION |
|-----------------|---------------------------------|-------------------|--------------------------|
| DC-P0 | 625.75 | 2.35 | 623.40 |
| DC-P1 | 625.26 | 1.90 | 623.36 |
| DC-P2 | 626.79 | 3.10 | 623.69 |
| DC-P3 | 625.22 | 1.40 | 623.82 |
| DC-P4 | 625.10 | 1.85 | 623.25 |
| DC-P5 | 625.16 | 1.64 | 623.52 |
| RP-01 | 629.65 | 2.14 | 627.51 |
| RP-02 | 627.75 | 2.12 | 625.63 |
| RP-03 | 627.11 | 2.92 | 624.19 |

APPENDIX B

EQUIPOTENTIAL AND PRODUCT THICKNESS DATA




LEGEND

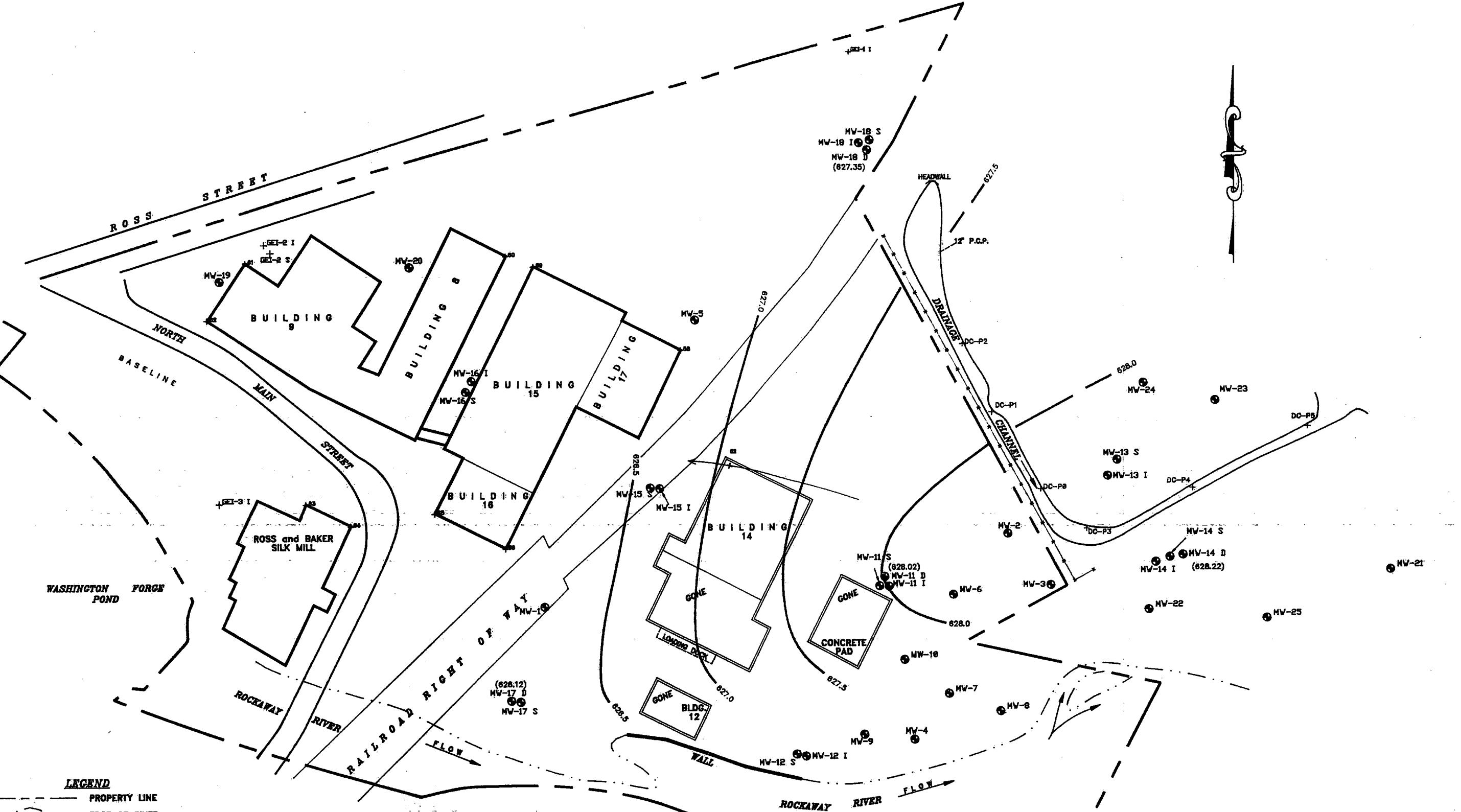
- PROPERTY LINE
- - EDGE OF RIVER
- - FENCE LINE
- ◆ RW-1 RECOVERY WELLS
- (●) MW-6 MONITORING WELLS
- + DC-P2 DRAINAGE CHANNEL POINTS
- + PEZ-3 I PIEZOMETERS
- ~~~~ GROUNDWATER CONTOUR ELEVATION (0.5 FEET)
(DASHED WHERE INFERRED)
- ~~~~ CORRECTED WATER LEVEL ELEVATION AT MONITORING POINT
(FT. ABOVE M.S.L.)

GRAPHIC SCALE
100 0 50 100
1 Inch = 100 ft.



PROJECT NAME: FOURTH QUARTER 1993
PROGRESS REPORT
WHARTON, NEW JERSEY
CLIENT NAME: LE. CARPENTER AND COMPANY

EQUIPOTENTIAL MAP OF THE
INTERMEDIATE AQUIFER ZONE
MEASURED ON 12/27/93
DATE: 01/27/94 FIGURE #: 2


LEGEND

- PROPERTY LINE
- - EDGE OF RIVER
- FENCE LINE

- MW-6 MONITORING WELLS
- +DC-P8 DRAINAGE CHANNEL POINTS
- +GEI-2 I PIEZOMETERS
- GROUNDWATER CONTOUR ELEVATION (0.5 FEET)
(DASHED WHERE INFERRED)
- (628.00) CORRECTED WATER LEVEL ELEVATION AT MONITORING POINT
(FT. ABOVE M.S.L.)

GRAPHIC SCALE
100 0 50 100
1 Inch = 100 ft.



PROJECT NAME:
**FOURTH QUARTER 1993
PROGRESS REPORT**

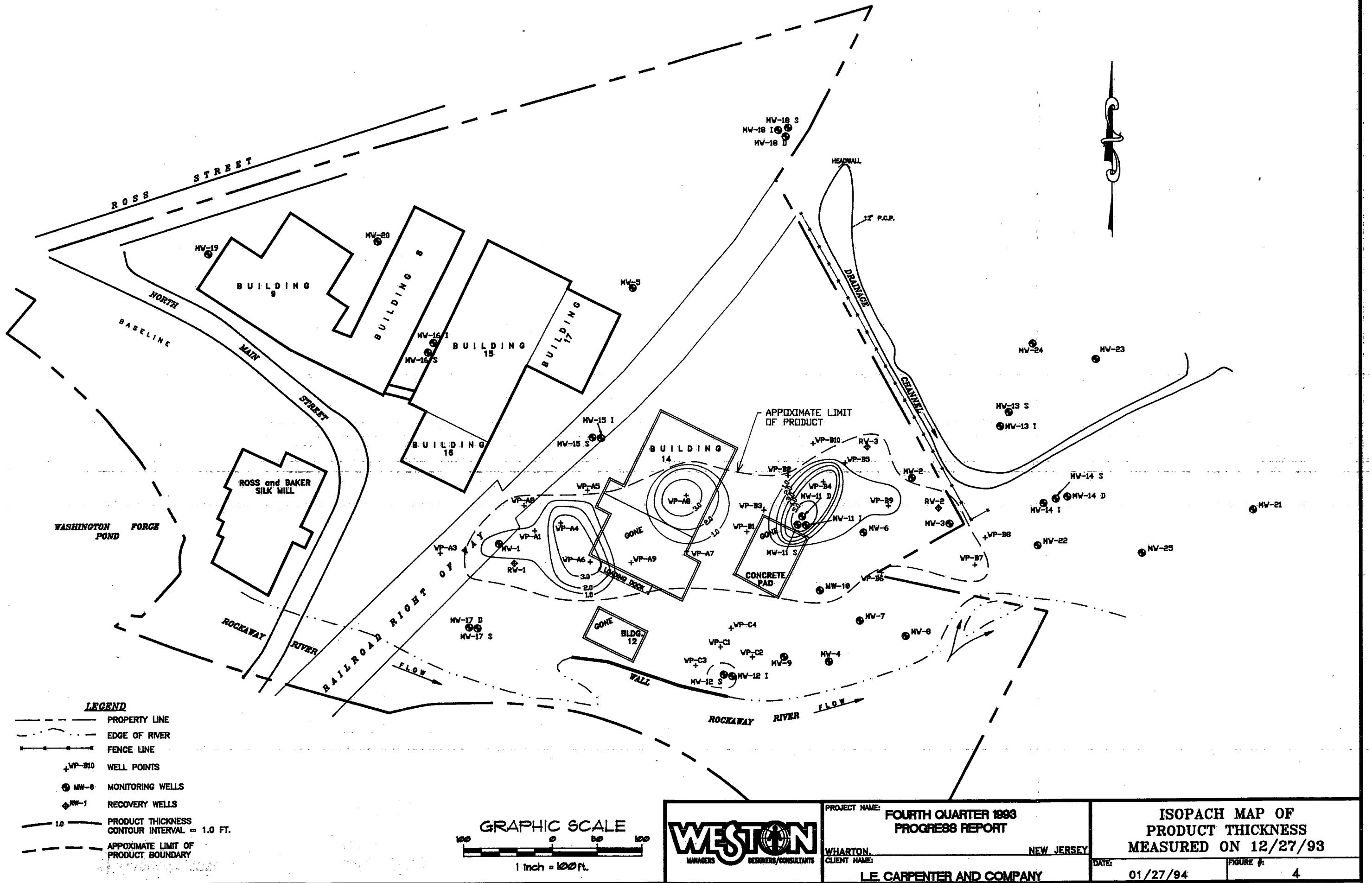
WHARTON, NEW JERSEY

LE CARPENTER AND COMPANY

EQUIPOTENTIAL MAP OF THE
DEEP AQUIFER ZONE
MEASURED ON 12/27/93

DATE: 01/27/94

FIGURE #: 3



APPENDIX C

BTEX ANALYTICAL RESULTS

Inter-Office Memorandum



TO: Chris Agnew
(EDC)

FROM: Mike Young *(M.Y.)*

DATE: January 12, 1994

PROJECT: LE CARPENTER

W.O. NO.: 06720-013-001-0004

SUBJECT: Analytical Results

ACTION:

Enclosed are the analytical results for RFW batch number 9312L056.

Please call me at x4203 if you have any questions.

/clk

Enclosure:



CASE NARRATIVE
Organics Group

Weston-Gulf Coast
L.E. Carpenter
RFW # 9312L056-001/005
BTEX

1. These samples were analyzed for Benzene, Toluene, Ethylbenzene and Xylene based on 40 CFR method 602. A Tracor 565 gas chromatograph equipped with a photoionization detector and a LSC-2 Liquid Sample Concentrator was used for the analysis.
2. The method blank was below the reporting limit for all compounds.
3. All blank spike and blank spike duplicate recoveries were within control limits.
4. A matrix spike and matrix spike duplicate were performed on sample 9312L056-002 (MW-14S). All recoveries were within control limits, however, Ethylbenzene was out of control limits in the initial analysis of the matrix spike. The low recovery for Ethylbenzene may be due to the high concentration present in the sample. The matrix spike was reanalyzed, however, after the hold time had expired.
5. All surrogate recoveries were within control limits.
6. All initial analyses were run within the required hold times.
7. All initial and continuing standards for Benzene, Toluene, Ethylbenzene and Xylene (Total) were within control limits.

Janet L. Smaga
Janet L. Smaga
Unit Leader - GC/VOA

1-17-94
Date

Roy F. Weston, Inc. - Gulf Coast Laboratories
PURGEABLE AROMATICS BY GC, METHOD 602

RFW Batch Number: 9312L056

Client: L.E. Carpenter

Report Date: 01/17/94 15:32
Work Order: 06720-013-001-0
Page: 1

| | Cust ID: | MW-4 | MW-14S | MW-14S | MW-14S | MW-14S | MW-14S |
|--------------------|------------------------|--------|--------|--------|--------|------------|--------------|
| Sample Information | RFW#: | 001 | 002 | 002 DL | 002 MS | 002 MS | 002 MSD |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.0 | 1.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | a,a,a-Trifluorotoluene | 106 % | 96 % | 97 % | 83 % | 88 % | 94 % |
| | Benzene | 0.80 U | 0.19 J | NA | 67 % | 81 % | 70 % |
| | Toluene | 0.80 U | 0.56 J | NA | 64 % | 64 % | 61 % |
| | Ethylbenzene | 0.86 | E | 86 | 16 * % | 110 % | 61 % |
| | Xylene (Total) | 1.0 | E | 360 | 300 | 470 | 380 |
| | Cust ID: | MW-22 | MW-22 | MW-25 | MW-25 | Trip Blank | BLK |
| Sample Information | RFW#: | 003 | 003 DL | 004 | 004 DL | 005 | 93GVD548-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.0 | 50.0 | 1.0 | 20.0 | 1.0 | 1.0 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | a,a,a-Trifluorotoluene | 99 % | 95 % | 91 % | 88 % | 89 % | 99 % |
| | Benzene | 0.22 J | NA | 0.14 J | NA | 0.80 U | 0.80 U |
| | Toluene | 0.26 J | NA | 0.80 U | NA | 0.80 U | 0.80 U |
| | Ethylbenzene | E | 290 | 0.80 U | NA | 0.80 U | 0.80 U |
| | Xylene (Total) | E | 1200 | E | 260 | 0.25 J | 0.80 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
% = Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. * = Outside of EPA CLP QC

RFW Batch Number: 9312L056

Roy F. Weston, Inc. - Gulf Coast Laboratories

PURGEABLE AROMATICS BY GC, METHOD 602

Client: L.E. Carpenter

Report Date: 01/17/94 15:32

Work Order: 06720-013-001-0

Page: 2

Cust ID: BLK BS BLK BSD

Sample
Information

RFW#: 93GVD548-MB1 93GVD548-MB1

Matrix: WATER WATER

D.F.: 1.0 1.0

Units: ug/L ug/L

| | 103 | % | 100 | % | | | | | | | |
|----------------|------|---|------|---|--|--|--|--|--|--|--|
| Benzene | 103 | % | 95 | % | | | | | | | |
| Toluene | 104 | % | 94 | % | | | | | | | |
| Ethylbenzene | 100 | % | 96 | % | | | | | | | |
| Xylene (Total) | 0.80 | U | 0.80 | U | | | | | | | |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC



WESTON-GULF COAST, INC.
2417 BOND STREET
UNIVERSITY PARK, ILLINOIS 60466-3182
708-534-5200 • 219-885-7077 • 815-723-7533
FAX: 708-534-5211

11 January 1994

Ms. Tammy Edgington
Roy F. Weston, Inc.
208 Welsh Pool Road
Lionville, PA 19341-1313

RE: L.E. Carpenter
RFW# 9312L056

Dear Ms. Edgington:

Enclosed is the Analytical Report for the Project and RFW Batch Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

WESTON-GULF COAST, INC.



Eric A. Lang
Project Manager

sj

Enclosures

Approved By:



Michael J. Healy
Vice President/Laboratory Manager



POLYNUCLEAR AROMATIC HYDROCARBONS METHOD 8020

L.E. Carpenter
RFW# 9312L056

| | |
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Linda J Mackay
Organics Section Manager

1-11-94

Date

James E Davis
QA/QC Department

1-10-94

Date



Roy F. Weston, Inc. - Gulf Coast Laboratories
602 ANALYTICAL DATA PACKAGE FOR
L.E. Carpenter

RFW LOT # :9312L056

| CLIENT ID | RFW # | MTX | PREP # | COLLECTN DATE | REC | EXT/PREP | ANALYSIS | |
|------------|-------|-------|----------|---------------|----------|----------|----------|----------|
| MW-4 | 001 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 | |
| MW-14S | 002 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 | |
| MW-14S | 002 | 01 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 |
| MW-14S | 002 | MS | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 |
| MW-14S | 002 | MS R1 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 01/06/94 |
| MW-14S | 002 | MSD | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 |
| MW-22 | 003 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 | |
| MW-22 | 003 | 01 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 01/06/94 |
| MW-25 | 004 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 | |
| MW-25 | 004 | 01 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 |
| Trip Blank | 005 | W | 93GVD548 | 12/16/93 | 12/20/93 | N/A | 12/30/93 | |

LAB QC:

| | | | | | | | |
|-----|---------|---|----------|-----|-----|-----|----------|
| BLK | MB1 | W | 93GVD548 | N/A | N/A | N/A | 12/30/93 |
| BLK | MB1 BS | W | 93GVD548 | N/A | N/A | N/A | 01/05/94 |
| BLK | MB1 BSD | W | 93GVD548 | N/A | N/A | N/A | 01/05/94 |

CHAIN OF CUSTODY

WESTON Analytics Use Only

Client L E Carpenter
Work Order 11130-013-001-A.M.
Date Rec'd. 12/12/13 **Date Due** 1/14/13 Small
RFW Contact Eric Tracy
Client Contact/Phone Torvald, Washington

Custody Transfer Record/Lab Work Request

WESTERN

WESTON Analytics
Use Only

Samples Were:
Shipped or Hand-Delivered

2 Ambient or Chilled

3 Received Broken/ Leaking (Improperly Sealed)

Labels Indicate
Property Preserved
Y N

5 Received Within
Holding Times

COC Tape Was:

- 1 Present on Outer Package Y**
- 2 Unbroken on Outer Package Y**
- 3 Present on Sample Y**
- 4 Unbroken on Sample Y**

NOTES: Y

COC Record Was:
1 Present Upon Receipt
of Sample(s) Y

Discrepancies Between
Sample Labels and COC
Record? Y N

| | | | |
|----------------------|------------------|-----------------------------|------------------|
| Matrix: | W - Water | DG - Drum Solids | X - Other |
| S - Soil | O - Oil | DL - Drum Liquids | |
| SE - Sediment | A - Air | F - Fish | |
| SO - Solid | WI - Wipe | L - EP/TCLP Leachate | |

Special Instructions: * 12X Volume for MS1/msr

CLP

9312L056

Custody Transfer Record/Lab Work Request

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|------|--|--|--|--|--|--|--|--|------------------|--------|-------|--|--|--|--|--|--|--|--|--------|--------|-------|--|--|--|--|--|--|--|--|---------------|------------|--|--|--|--|--|--|--|--|--|--|--|--------------------|---------|--|--|--|-------|--|--|--|-----|------|----------|------|-------|----|--|--|
| Client <u>L-E Carpenter</u> Est. Final Proj. Sampling Date <u>12/30/013-001-0004</u> Work Order # <u>0630-013-001-0004</u> Project Contact/Phone # <u>Mike Young - 908-645-3580</u> AD Project Manager <u>Mike Young</u> QC <u>CLP</u> Del <u>CLP</u> TAT <u>30 Days</u> Date Rec'd <u>12/17/93</u> Date Due <u>1-16-14</u> Account # <u>LECAAPP-CLP</u> | | | | Refrigerator # <u>26</u> <table border="1"> <tr> <td>#/Type Container</td> <td>Liquid</td> <td>Solid</td> <td colspan="8"></td> </tr> <tr> <td>Volume</td> <td>Liquid</td> <td>Solid</td> <td colspan="8"></td> </tr> <tr> <td>Preservatives</td> <td colspan="12"><u>HCl</u></td> </tr> </table> ANALYSES REQUESTED → <table border="1"> <tr> <td rowspan="2">ANALYSES REQUESTED</td> <td colspan="4">ORGANIC</td> <td colspan="4">INORG</td> </tr> <tr> <td>VOA</td> <td>BINA</td> <td>PAST/PCB</td> <td>Herb</td> <td>Metal</td> <td>CN</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | | | #/Type Container | Liquid | Solid | | | | | | | | | Volume | Liquid | Solid | | | | | | | | | Preservatives | <u>HCl</u> | | | | | | | | | | | | ANALYSES REQUESTED | ORGANIC | | | | INORG | | | | VOA | BINA | PAST/PCB | Herb | Metal | CN | | |
| #/Type Container | Liquid | Solid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Liquid | Solid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preservatives | <u>HCl</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED | ORGANIC | | | | INORG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | VOA | BINA | PAST/PCB | Herb | Metal | CN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | WESTON Analytics Use Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish | Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | MS | MSD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 001 | MW-4 | ✓ | Water | 12/16/93 | 2:00pm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 002 | MW-145 | ✓ | | | 1 | 1100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 003 | MW-22 | ✓ | | | | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 004 | MW-25 | ✓ | | | | 1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 005 | Frap Blnc | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

Temp: 7.4°C
for BTEX
RECD ms/msd FOR ID# MW-145

DATE/REVISIONS:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

WESTON Analytics Use Only

- Samples were:
 1) Shipped or Hand Delivered
 Airbill # 1170341174
- COC Tape was:
 1) Present on Outer Package Y or N
 2) Unbroken on Outer Package Y or N
- 2) Ambient or Chilled
- 3) Received in Good Condition Y or N
- 4) Labels Indicate Properly Preserved Y or N
- 4) Unbroken on Sample Y or N
- 5) Received Within Holding Times Y or N
- COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|-----------------|-------------|----------|------|-----------------|-------------|------|------|
| <u>JL</u> | | | | | | | |
| <u>FLIXX</u> | <u>SL</u> | 12/17/93 | 8:45 | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
 NOTES: N

DATA SUMMARY

RFW Batch Number: 9312L056

Roy F. Weston, Inc.: - Gulf Coast Laboratories
PURGEABLE AROMATICS BY GC, METHOD 602
Client: L.E. Carpenter

Report Date: 01/31/94 16:22
Work Order: 06720-013-001-0
Page: 1

| | Cust ID: | MW-4 | MW-14S | MW-14S | MW-14S | MW-14S | MW-14S |
|--------------------|------------------------|---------|---------|--------|--------|--------|---------|
| Sample Information | RFW#: | 001 | 002 | 002 DL | 002 MS | 002 MS | 002 MSD |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.0 | 1.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | a,a,a-Trifluorotoluene | 106 % | 96 % | 97 % | 83 % | 88 % | 94 % |
| | | f1 | f1 | f1 | f1 | f1 | f1 |
| Benzene | | 1.0 U | 1.0 BRL | NA | 67 % | 81 % | 70 % |
| Toluene | | 1.0 U | 1.0 BRL | NA | 64 % | 64 % | 61 % |
| Ethylbenzene | | 1.0 BRL | E | 86 | 16 * % | 110 % | 61 % |
| Xylene (Total) | | 2.0 BRL | E | 360 | 300 | 470 | 380 |

| | Cust ID: | MW-22 | MW-22 | MW-25 | MW-25 | Trip Blank | BLK |
|--------------------|------------------------|---------|--------|---------|--------|------------|--------------|
| Sample Information | RFW#: | 003 | 003 DL | 004 | 004 DL | 005 | 93GVD548-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.0 | 50.0 | 1.0 | 20.0 | 1.0 | 1.0 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| | a,a,a-Trifluorotoluene | 99 % | 95 % | 91 % | 88 % | 89 % | 99 % |
| | | f1 | f1 | f1 | f1 | f1 | f1 |
| Benzene | | 1.0 BRL | NA | 1.0 BRL | NA | 1.0 U | 1.0 U |
| Toluene | | 1.0 BRL | NA | 1.0 U | NA | 1.0 U | 1.0 U |
| Ethylbenzene | | E | 290 | 1.0 U | NA | 1.0 U | 1.0 U |
| Xylene (Total) | | E | 1200 | E | 260 | 2.0 BRL | 2.0 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
% = Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. * = Outside of EPA CLP QC

Cust ID: BLK BS BLK BSD

Sample
Information

RFW#: 93GVD548-MB1 93GVD548-MB1
 Matrix: WATER WATER
 D.F.: 1.0 1.0
 Units: ug/L ug/L

| | | | | | | | | | | |
|------------------------|-----|---|-----|---|----|----|----|----|----|----|
| a,a,a-Trifluorotoluene | 103 | % | 100 | % | f1 | f1 | f1 | f1 | f1 | f1 |
| Benzene | 103 | % | 95 | % | | | | | | |
| Toluene | 104 | % | 94 | % | | | | | | |
| Ethylbenzene | 100 | % | 96 | % | | | | | | |
| Xylene (Total) | 2.0 | U | 2.0 | U | | | | | | |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

I. CASE NARRATIVE



CASE NARRATIVE
Organics Group

Weston-Gulf Coast
L.E. Carpenter
RFW # 9312L056-001/005
BTEX

1. These samples were analyzed for Benzene, Toluene, Ethylbenzene and Xylene based on SW846 method 8020. A Tracor 565 gas chromatograph equipped with a photoionization detector and a LSC-2 Liquid Sample Concentrator was used for the analysis.
2. The method blank was below the reporting limit for all compounds.
3. All blank spike and blank spike duplicate recoveries were within control limits.
4. A matrix spike and matrix spike duplicate were performed on sample 9312L056-002 (MW-14S). All recoveries were within control limits, however, Ethylbenzene was out of control limits in the initial analysis of the matrix spike. The low recovery for Ethylbenzene may be due to the high concentration present in the sample. The matrix spike was reanalyzed, however, after the hold time had expired.
5. All surrogate recoveries were within control limits.
6. All initial analyses were run within the required hold times.
7. All initial and continuing standards for Benzene, Toluene, Ethylbenzene and Xylene (Total) were within control limits.

Janet L. Smaga
Janet L. Smaga
Unit Leader - GC/VOA

1-7-94
Date



ORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Organic Data Qualifiers

- A TIC is a suspected aldol-condensation product
- B Compound was found in the blank and the sample
- C Pesticide identification was confirmed by GC/MS
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis
- E Concentration exceeds the instrument calibration range and was subsequently diluted
- I Appears on the "results spreadsheet" and "quant reports" to indicate an interference, or it appears on pesticide Form 8 to indicate an instrument blank without a surrogate
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
- NQ Result was qualitatively confirmed, but not quantified
- P The percent difference between the results from two GC columns is greater than 25%, and the lower of the two values is reported
- T Compound was found in the TCLP extraction blank and the sample
- U Compound was not detected at or above the reporting limit
- X Other specific flags may be required to properly qualify the result
- * QC result was outside the laboratory control limits

Abbreviations

- BS Blank Spike: spike analysis was conducted on reagent grade water or a matrix free from the analyte(s) of interest.
- BSD Blank Spike Duplicate
- BRL Below Reporting Limit
- CD Calculation Factor used by the laboratory's Information Management System (LIMS)
- DF Dilution Factor
- DL Appears in the sample ID to indicate a secondary dilution
- LCS or (LC) denotes Laboratory Control Standard
- MB Method Blank or (PB) preparation blank
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- NA Not Applicable
- NR Not Required
- NS Not Spiked
- RE Appears in the sample ID to indicate a Re-analysis
- REP Replicate analysis
- REPREP Sample was reprepared and then reanalyzed
- RFW# Equivalent to the laboratory sample identification (LAB ID)
- RPD Relative Percent Difference of duplicate analyses
- RRF Relative Response Factor
- RT Retention Time
- RT Retention Time Window

NOTES:

One or a combination of these data qualifiers and abbreviations may appear in the analytical report. Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently. Reporting limits are adjusted for preparation sample size, sample dilutions, and sample moisture content if analyzed on a dry weight basis.

- II. Quality Control Summary (spreadsheet)**
 - A. Surrogate % recovery (Form 2)**
 - B. MS/MSD summary (Form 3)**
 - C. Method blank (Form 4)**

2
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc.
 Case No.: L.E. Carpenter
 RFW Lot No.: 9312L056

Contract: 06720-013-001-0

| CLIENT SAMPLE NO. | S1 ()# | S2 ()# | S3 ()# | OTHER | TOT OUT |
|----------------------|------------|------------|------------|-------|------------|
| 01 MW-4 | 106 | | | | 0 |
| 02 MW-14S | 96 | | | | 0 |
| 03 MW-14SDL | 97 | | | | 0 |
| 04 MW-14SMS | 88 | | | | 0 |
| 05 MW-14SMSD | 94 | | | | 0 |
| 06 MW-22 | 99 | | | | 0 |
| 07 MW-22DL | 95 | | | | 0 |
| 08 MW-25 | 91 | | | | 0 |
| 09 MW-25DL | 88 | | | | 0 |
| 10 Trip Blank | 89 | | | | 0 |
| 11 BLKGVD548-MB1 | 99 | | | | 0 |
| 12 BLKGVD548-MB1 BS | 103 | | | | 0 |
| 13 BLKGVD548-MB1 BSD | 100 | | | | 0 |

S1 () = a,a,a-Trifluorotoluene

QC LIMITS
(55-135)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc.

Contract: 06720-013-001-0

Case No.: L.E. Carpenter

RFW Lot No.: 9312L056-002

MATRIX Spike - Sample No.: MW-14S

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC |
|--------------|--------------------|-----------------------------|-------------------------|------------|---------------|
| Benzene | 2.40 | 0.190 | 2.13 | 81 | 39-150 |
| Toluene | 2.40 | 0.557 | 2.18 | 68 | 46-148 |
| Ethylbenzene | 2.40 | 38.4 | 41.0 | 110 | 32-160 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD REC |
|--------------|--------------------|--------------------------|-------------|---------|---------------------|
| Benzene | 2.40 | 1.88 | 70 | 14 | 20 39-150 |
| Toluene | 2.40 | 2.03 | 61 | 10 | 20 46-148 |
| Ethylbenzene | 2.40 | 39.8 | 61 | 57 * | 20 32-160 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc.

Contract: 06720-013-001-0

Case No.: L.E. Carpenter

RFW Lot No.: 9312L056-002

MATRIX Spike - Sample No.: MW-14SRE

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC |
|-------------------|--------------------------|-----------------------------------|-------------------------------|------------------|---------------------|
| Benzene_____ | 2.40 | 0 | 1.61 | 67 | 39-150 |
| Toluene_____ | 2.40 | 0 | 1.54 | 64 | 46-148 |
| Ethylbenzene_____ | 2.40 | 0 | 0.373 | 16 * | 32-160 |

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 3 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc.

Contract: NONE

Case No.: L.E. Carpenter

RFW Lot No.: 9312L056

MATRIX Spike - Sample No.: BLKGVD548-MB1

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC |
|--------------|--------------------|-----------------------------|-------------------------|------------|---------------|
| Benzene | 2.40 | 0 | 2.47 | 103 | 39-150 |
| Toluene | 2.40 | 0 | 2.50 | 104 | 46-148 |
| Ethylbenzene | 2.40 | 0 | 2.41 | 100 | 32-160 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | REC |
|--------------|--------------------|--------------------------|-------------|---------|---------------|--------|
| Benzene | 2.40 | 2.29 | 95 | 8 | 20 | 39-150 |
| Toluene | 2.40 | 2.25 | 94 | 10 | 20 | 46-148 |
| Ethylbenzene | 2.40 | 2.31 | 96 | 4 | 20 | 32-160 |

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc.

Contract: 06720-013-001-0

Case No.: L.E. Carpenter

Lab File ID: RAW1:LU338562

Lab Sample ID: 93GVD548-MB1

Date Analyzed: 12/30/93

Time Analyzed: 0858

Matrix:(Soil/Water) WATER

Level:(low/med) LOW

Instrument ID: 11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----------------------|------------------|----------------|------------------|
| 01 MW-4 | 9312L056-001 | 12/30/93 | 1004 |
| 02 MW-14S | 9312L056-002 | 12/30/93 | 1112 |
| 03 MW-14SDL | 9312L056-002 | 12/30/93 | 1810 |
| 04 MW-14SMS | 9312L056-002S | 01/06/94 | 1459 |
| 05 MW-14MSD | 9312L056-002T | 12/30/93 | 2346 |
| 06 MW-22 | 9312L056-003 | 12/30/93 | 1218 |
| 07 MW-22DL | 9312L056-003 | 01/06/94 | 1353 |
| 08 MW-25 | 9312L056-004 | 12/30/93 | 1453 |
| 09 MW-25DL | 9312L056-004 | 12/30/93 | 2025 |
| 10 Trip Blank | 9312L056-005 | 12/30/93 | 1702 |
| 11 BLKGV548-MB1 BS | 93GVD548-MB1S | 01/05/94 | 1805 |
| 12 BLKGV548-MB1 BSD | 93GVD548-MB1T | 01/05/94 | 1909 |

COMMENTS:

Karen Dunn
1-7-94

III. Sample Data Package

- A. Results summary (Form 1)**
- B. Chromatograms/quant reports - primary column**

CLIENT SAMPLE NO.

GC VOLATILES SHEET

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

MW-4

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-001Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338578Level: (low/med) LOWDate Received: 12/20/93

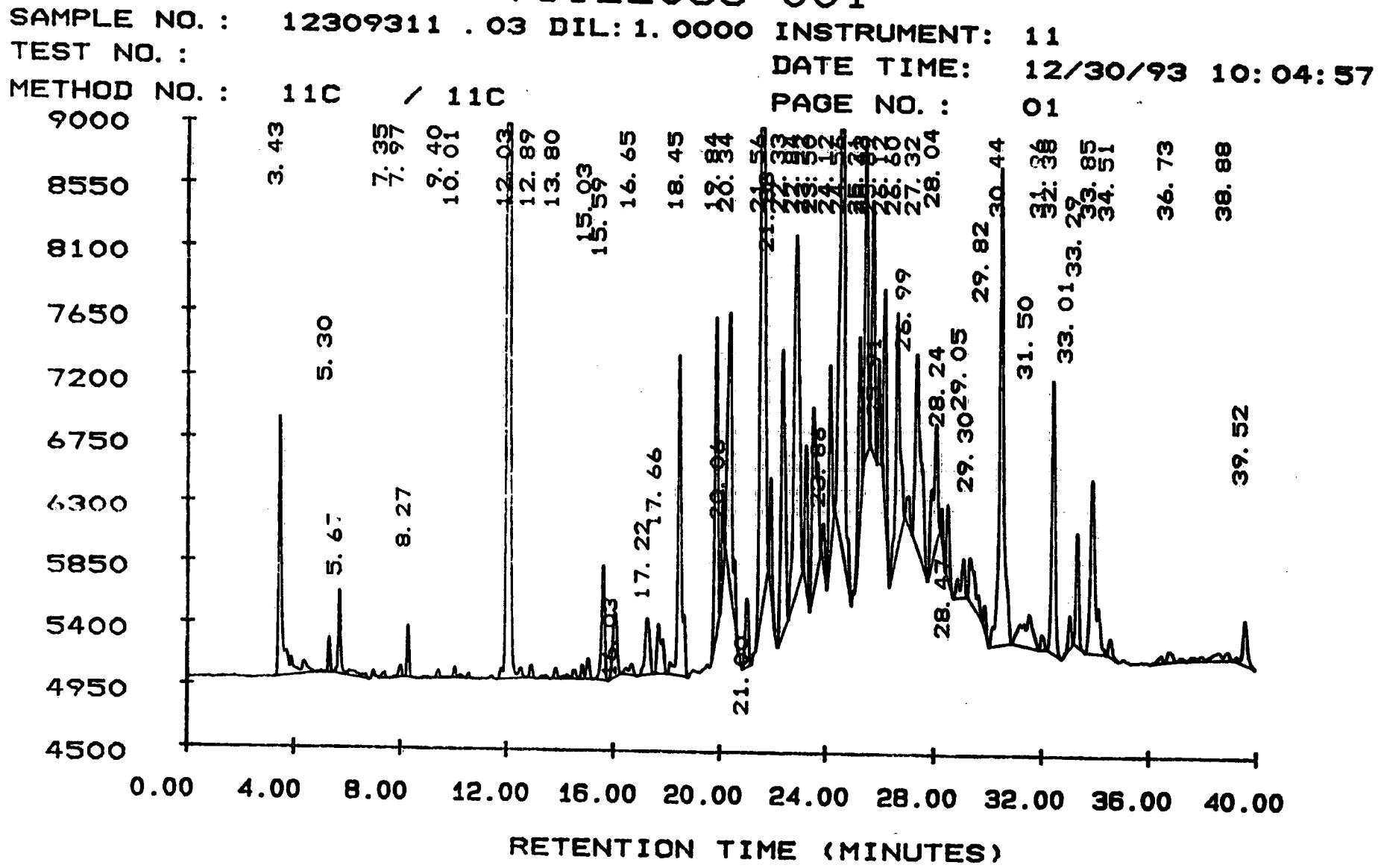
% Moisture: not dec.

Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 1.0CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NO. | COMPOUND | | |
|----------------|----------------|-----|-----|
| 71-43-2----- | Benzene | 1.0 | U |
| 108-88-3----- | Toluene | 1.0 | U |
| 100-41-4----- | Ethylbenzene | 1.0 | BRL |
| 1330-20-7----- | Xylene (Total) | 2.0 | BRL |

12/88 Rev.

9312L056-001



START TIME: 0. 00
 END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .03

TEST : 08020

COLLECTION TIME : 39.90

METHOD: 11C / 11C

REV #: 00119

ANALYST: KOVAKAS SAMP RATE: 1.56

CLIENT ID: MW-4

CLIENT: L.E. Carpenter

LAB ID: 9312L056-001

SAMPLE WT :

% MOISTURE :

INST:11 VIAL:FO SEQ NUMBER:003

DATE-TIME INJECTED : 12/30/93 10:04:57

DATE-TIME PROCESSED : 12/30/93 10:45:36

SAMPLE VOL:

COLUMN TYPE: 5000UL DB-624

RAW FILE: RAW1:LU338578

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|---------------------|-----------------------|
| 001 | 179133 | 18832 | V | 3.429 | | | |
| 002 | 14650 | 2529 | V | 5.297 | | | |
| 003 | 51066 | 6031 | V | 5.672 | | | |
| | | | | 6.653 | 1 | MTBE | |
| 004 | 4755 | 464 | V | 7.349 | | | |
| 005 | 8520 | 912 | V | 7.972 | | | |
| 006 | 21206 | 3736 | V | 8.270 | | | |
| 007 | 8006 | 636 | V | 9.402 | | | |
| 008 | 11389 | 857 | V | 10.011 | 1 | BENZENE | 0.026 |
| 009 | 1553499 | 233844 | V | 12.026 | 1 | a,a,a-TRIFLUOROTOLU | 25.506 |
| 010 | 7686 | 1001 | V | 12.891 | | | |
| 011 | 23030 | 807 | V | 13.804 | | | |
| | | | | 14.803 | 1 | TOLUENE | |
| 012 | 19300 | 1540 | V | 15.027 | | | |
| 013 | 67589 | 8333 | V | 15.591 | | | |
| 014 | 52541 | 4651 | V | 16.028 | | | |
| 015 | 13416 | 882 | V | 16.648 | | | |
| 016 | 49811 | 4086 | V | 17.220 | | | |
| 017 | 47149 | 3550 | V | 17.657 | | | |
| 018 | 216643 | 23076 | V | 18.446 | | | |
| | | | | 19.439 | 1 | CHLOROBENZENE | |
| 019 | 172009 | 22692 | V | 19.835 | 1 | ETHYLBENZENE | 0.864 |
| 020 | 35058 | 6491 | V | 20.061 | | | |
| 021 | 247938 | 20026 | V | 20.342 | 1 | M,P-XYLENE | 0.683 |
| 022 | 42093 | 4912 | V | 21.003 | | | |
| 023 | 621441 | 55763 | V | 21.557 | | | |
| 024 | 53708 | 8396 | V | 21.883 | 1 | XYLENE (TOTAL) | 0.334 |
| 025 | 220967 | 20643 | V | 22.329 | | | |
| 026 | 359075 | 25471 | V | 22.838 | | | |
| 027 | 75799 | 10487 | V | 23.219 | | | |
| 028 | 166170 | 13308 | V | 23.502 | | | |
| 029 | 24739 | 3375 | V | 23.861 | | | |
| 030 | 94822 | 13397 | V | 24.121 | | | |
| 031 | 549429 | 49397 | V | 24.564 | | | |
| 032 | 94467 | 12419 | V | 25.207 | | | |
| 033 | 164076 | 22261 | V | 25.428 | | | |
| 034 | 134395 | 17866 | V | 25.688 | | | |
| 035 | 41051 | 7250 | V | 25.914 | | | |
| 036 | 126019 | 15940 | V | 26.124 | | | |
| 037 | 178127 | 16775 | V | 26.600 | | | |

1017

*K. Carpenter
12/30/93*

SAMPLE: 12309311 .03
DATE-TIME INJECTED : 12/30/93 10:04:57
DATE-TIME PROCESSED : 12/30/93 10:45:36

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|---------------------|-----------------------|
| 038 | 22892 | 2252 | V | 26.988 | | | |
| 039 | 214110 | 14250 | V | 27.322 | | | |
| 040 | 111417 | 8736 | V | 28.037 | | | |
| 041 | 15876 | 2784 | V | 28.245 | | | |
| 042 | 41186 | 5640 | V | 28.469 | 1 | 1,3-DICHLOROBENZENE | 0.218 |
| 043 | 32861 | 2663 | V | 29.052 | 1 | 1,4-DICHLOROBENZENE | 0.113 |
| 044 | 53690 | 3252 | V | 29.301 | | | |
| 045 | 12668 | 1906 | V | 29.823 | | | |
| 046 | 368178 | 34081 | V | 30.443 | 1 | 1,2-DICHLOROBENZENE | 1.650 |
| 047 | 70958 | 2432 | V | 31.502 | | | |
| 048 | 9621 | 1059 | V | 31.965 | | | |
| 049 | 169541 | 19727 | V | 32.382 | | | |
| 050 | 18110 | 2313 | V | 33.011 | | | |
| 051 | 61652 | 8259 | V | 33.290 | | | |
| 052 | 162374 | 12642 | V | 33.846 | | | |
| 053 | 12874 | 1308 | V | 34.510 | | | |
| 054 | 17953 | 801 | V | 36.734 | | | |
| 055 | 34665 | 597 | V | 38.878 | | | |
| 056 | 38627 | 3172 | | 39.517 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-14SClient: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-002Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338590Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NO. | COMPOUND | | |
|----------------|----------------|-----|-----|
| 71-43-2----- | Benzene | 1.0 | BRL |
| 108-88-3----- | Toluene | 1.0 | BRL |
| 100-41-4----- | Ethylbenzene | | E |
| 1330-20-7----- | Xylene (Total) | | E |

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7312L056-002

SAMPLE NO. : 12309311 . 04 DIL: 1. 0000 INSTRUMENT:

TEST NO. :

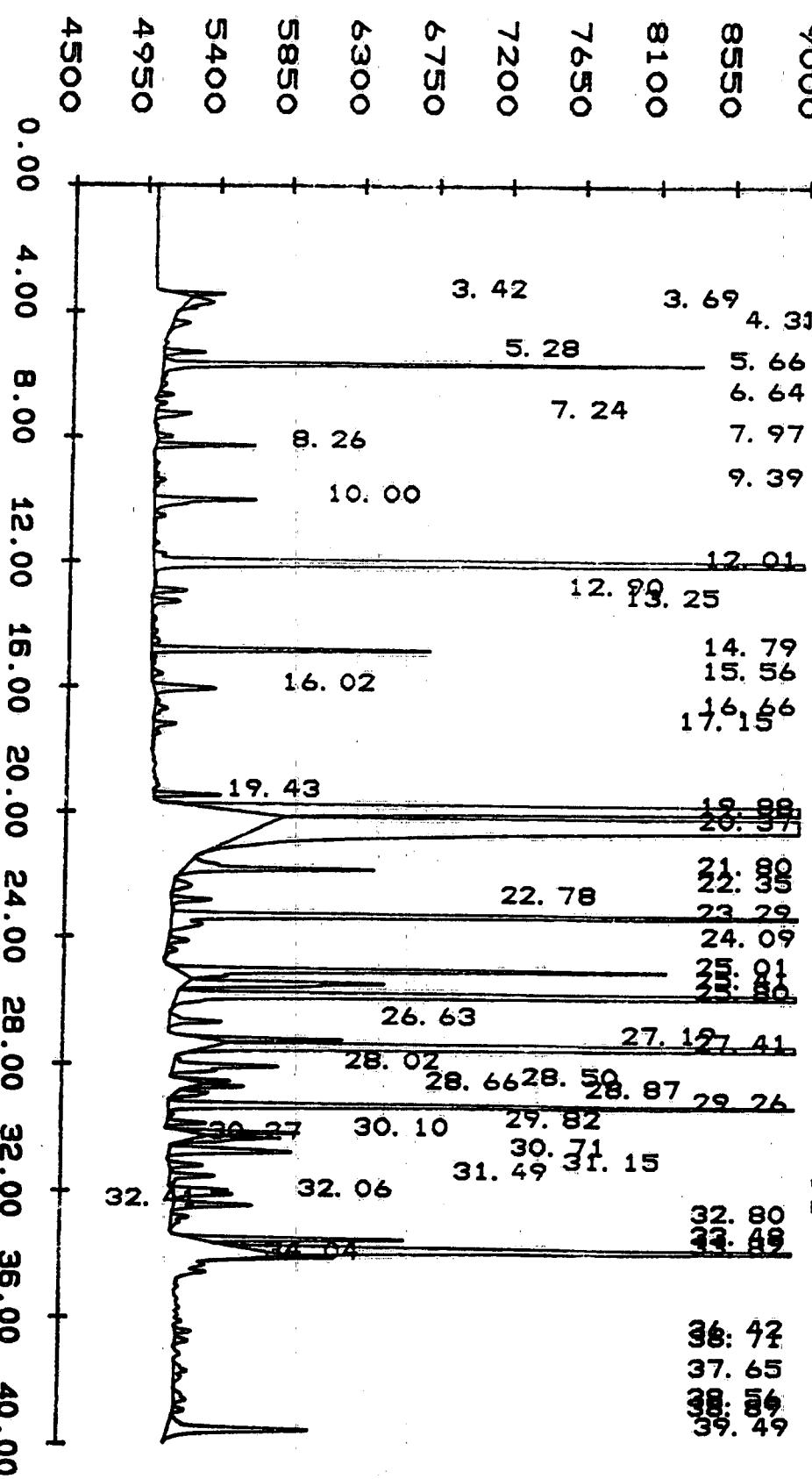
DATE TIME:

12/30/93 11:12:14

METHOD NO. : 11C / 11C

PAGE NO. :

01



RETENTION TIME (MINUTES)

Y MAXIMUM: 9000.
Y MINIMUM: 4500.

START TIME: 0.00
END TIME: 40.00

EXTERNAL STANDARD

SAMPLE: 12309311 .04
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: KOUVAKAS SAMP RATE: 1.56
 CLIENT ID: MW-14S
 CLIENT: L.E. Carpenter
 LAB ID: 9312L056-002
 SAMPLE WT : % MOISTURE :
 INST:11 VIAL:FO SEQ NUMBER:004
 DATE-TIME INJECTED : 12/30/93 11:12:14
 DATE-TIME PROCESSED : 12/30/93 11:52:53
 SAMPLE VOL:
 COLUMN TYPE: 5000UL DB-624
 RAW FILE: RAW1:LU338590
 DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC | PPB |
|-------|-----------|-------------|---------------|--------|------------------------|-------------|-----|
| 001 | 13615 | 2865 | V | 3.423 | | | |
| 002 | 21795 | 1583 | V | 3.687 | | | |
| 003 | 11043 | 1085 | V | 4.331 | | | |
| 004 | 17376 | 2535 | V | 5.284 | | | |
| 005 | 185392 | 32601 | V | 5.661 | | | |
| 006 | 6399 | 1021 | V | 6.645 | 1 MTBE | -0.150 | |
| 007 | 19731 | 2244 | V | 7.242 | | | |
| 008 | 8644 | 985 | V | 7.965 | | | |
| 009 | 35196 | 6165 | V | 8.257 | | | |
| 010 | 13864 | 692 | V | 9.388 | | | |
| 011 | 68046 | 6378 | V | 9.996 | 1 BENZENE | 0.190 | |
| 012 | 1401569 | 211191 | V | 12.007 | 1 a,a,a-TRIFLUOROTOLUE | 23.035 | |
| 013 | 16732 | 2123 | V | 12.905 | | | |
| 014 | 15904 | 1783 | V | 13.252 | | | |
| 015 | 114464 | 17073 | V | 14.789 | 1 TOLUENE | 0.557 | |
| 016 | 12247 | 692 | V | 15.562 | | | |
| 017 | 38965 | 3863 | V | 16.016 | | | |
| 018 | 11771 | 848 | V | 16.661 | | | |
| 019 | 17072 | 1444 | V | 17.152 | | | |
| 020 | 25360 | 4197 | V | 19.427 | 1 CHLOROBENZENE | 0.140 | |
| 021 | 9613197 | 1007869 | V | 19.883 | 1 ETHYLBENZENE | 38.358 E | |
| 022 | 14750431 | 1006701 | V | 20.373 | 1 M,P-XYLENE | 34.338 E | |
| 023 | 95333 | 11678 | V | 21.805 | 1 XYLENE (TOTAL) | 0.464 E | |
| 024 | 15906 | 1159 | V | 22.345 | | | |
| 025 | 19836 | 2498 | V | 22.784 | | | |
| 026 | 385156 | 52376 | V | 23.294 | | | |
| 027 | 18560 | 1279 | V | 24.090 | | | |
| 028 | 214780 | 29839 | V | 25.008 | | | |
| 029 | 115194 | 12082 | V | 25.414 | | | |
| 030 | 694246 | 99417 | V | 25.798 | | | |
| 031 | 28059 | 3214 | V | 26.633 | | | |
| 032 | 49674 | 8241 | V | 27.187 | | | |
| 033 | 1331549 | 199267 | V | 27.410 | | | |
| 034 | 68084 | 6561 | V | 28.024 | | | |
| 035 | 13295 | 2342 | V | 28.501 | 1 1,3-DICHLOROBENZENE | 0.091 | |
| 036 | 15584 | 2936 | V | 28.660 | | | |
| 037 | 18979 | 1962 | V | 28.869 | 1 1,4-DICHLOROBENZENE | 0.083 | |
| 038 | 266996 | 38980 | V | 29.262 | | | |
| 039 | 16666 | 2444 | V | 29.818 | | | |
| 040 | 38027 | 6626 | V | 30.102 | | | |

 N. Carpenter
15A4

SAMPLE: 12309311 .04
DATE-TIME INJECTED : 12/30/93 11:12:14
DATE-TIME PROCESSED : 12/30/93 11:52:53

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL MINUTES | RT # | GR NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|---------------|---------|-----------------------|-----------------------|
| 041 | 36391 | 4267 | V | 30.272 | | |
| 042 | 74050 | 7585 | V | 30.706 | 1 1,2-DICHLOROBENZENE | 0.367 |
| 043 | 15922 | 2083 | V | 31.146 | | |
| 044 | 22876 | 2754 | V | 31.487 | | |
| 045 | 49254 | 3708 | V | 32.064 | | |
| 046 | 40940 | 4904 | V | 32.415 | | |
| 047 | 13132 | 1085 | V | 32.800 | | |
| 048 | 89298 | 12773 | V | 33.484 | | |
| 049 | 377051 | 40632 | V | 33.823 | | |
| 050 | 17958 | 3899 | V | 34.045 | | |
| 051 | 7336 | 989 | V | 36.421 | | |
| 052 | 7484 | 845 | V | 36.712 | | |
| 053 | 16390 | 865 | V | 37.654 | | |
| 054 | 11816 | 763 | V | 38.563 | | |
| 055 | 5736 | 703 | V | 38.888 | | |
| 056 | 92653 | 8731 | | 39.487 | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-14SDLClient: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-002 DLSample wt/vol: 5.0 (g/mL) MLLab File ID: LU338685Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 20.0CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

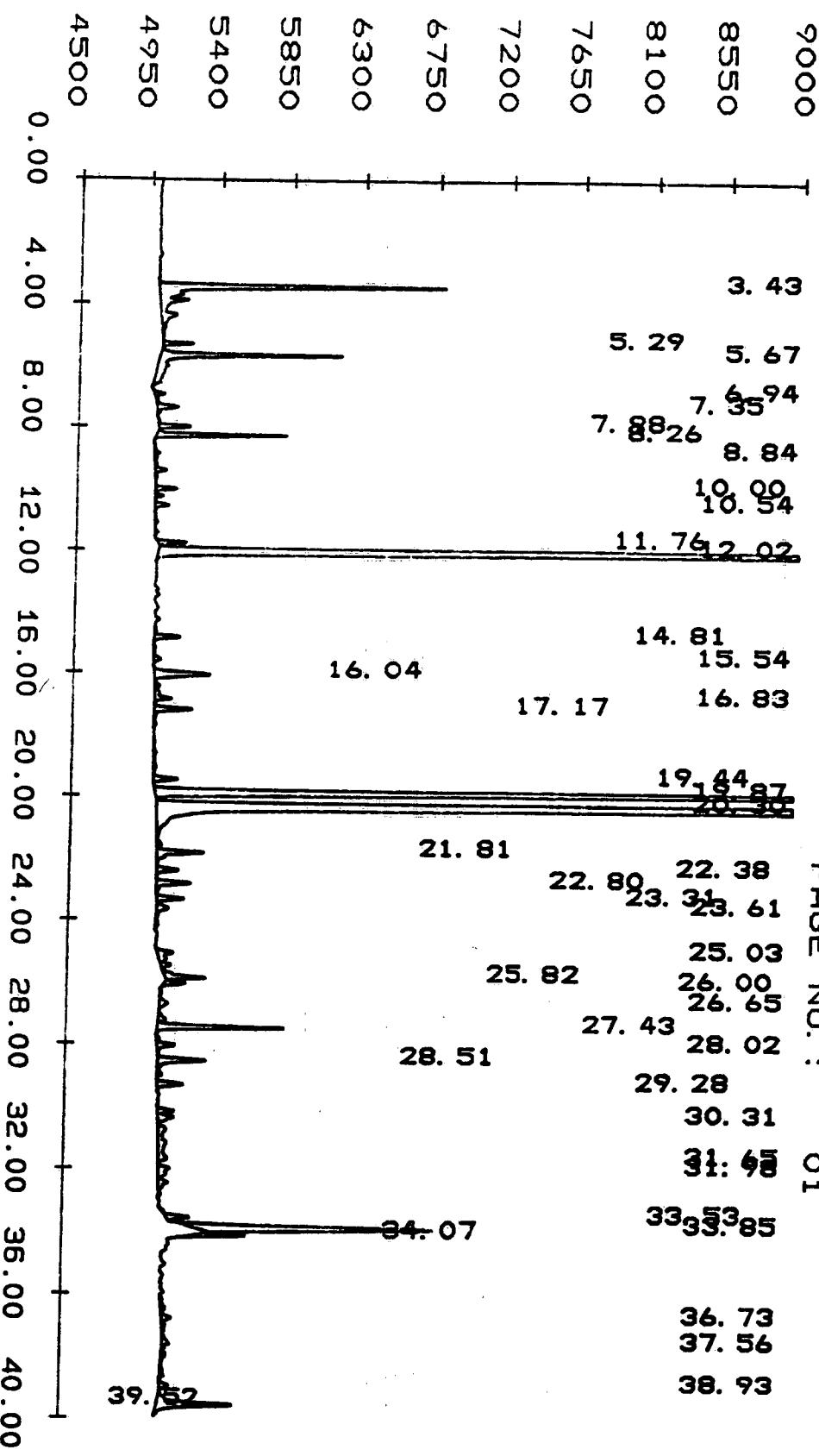
| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|----------------|----------------|----------------------|--|
| 71-43-2----- | Benzene | NA | |
| 108-88-3----- | Toluene | NA | |
| 100-41-4----- | Ethylbenzene | 86 | |
| 1330-20-7----- | Xylene (Total) | 360 | |

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9312L056-002

27

SAMPLE NO. : 12309311 . 10 DIL: 20. 000 INSTRUMENT: 11
TEST NO. : DATE TIME: 12/30/93 18: 10: 00
METHOD NO. : 11C / 11C PAGE NO. : 01
9000



EXTERNAL STANDARD

SAMPLE: 12309311 .10
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO
 CLIENT ID: MW-14S
 CLIENT: L.E. Carpenter
 LAB ID: 9312L056-002
 SAMPLE WT : % MOISTURE :
 INST:11 VIAL:FO SEQ NUMBER:010
 DATE-TIME INJECTED : 12/30/93 18:10:00
 DATE-TIME PROCESSED : 12/30/93 18:50:41
 SAMP RATE: 1.56
 SAMPLE VOL:
 COLUMN TYPE: 5000UL DB-624
 RAW FILE: RAW1:LU338685
 DILUTION FACTOR : 20.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|---------------|------|----------------------|-----------------|
| 001 | 169592 | 17739 | V 3.428 | | | |
| 002 | 8859 | 1851 | V 5.294 | | | |
| 003 | 91108 | 11243 | V 5.672 | | | |
| | | | 6.653 | 1 | MTBE | |
| 004 | 4850 | 678 | V 6.935 | | | |
| 005 | 11689 | 1350 | V 7.352 | | | |
| 006 | 12089 | 1956 | V 7.976 | | | |
| 007 | 45744 | 8193 | V 8.263 | | | |
| 008 | 13624 | 357 | V 8.840 | | | |
| 009 | 10486 | 1320 | V 10.004 | 1 | BENZENE | —0.787— |
| 010 | 9099 | 866 | V 10.542 | | | |
| 011 | 10082 | 1800 | V 11.756 | | | |
| 012 | 1375373 | 212930 | V 12.024 | 1 | a,a,a-TRIFLUOROTOLUE | 464.503 2 3.22 |
| 013 | 11930 | 1663 | V 14.807 | 1 | TOLUENE | —1.084— |
| 014 | 6634 | 503 | V 15.544 | | | |
| 015 | 33593 | 3546 | V 16.036 | | | |
| 016 | 13443 | 1040 | V 16.832 | | | |
| 017 | 18346 | 2385 | V 17.170 | | | |
| 018 | 14873 | 1505 | V 19.444 | 1 | CHLOROBENZENE | —1.000— |
| 019 | 731688 | 113064 | V 19.868 | 1 | ETHYLBENZENE | 86.061 |
| 020 | 3544451 | 522847 | V 20.301 | 1 | M,P-XYLENE | 356.676 |
| 021 | 25862 | 2961 | V 21.814 | 1 | XYLENE (TOTAL) | —2.354— |
| 022 | 9562 | 1361 | V 22.380 | | | |
| 023 | 16007 | 2144 | V 22.802 | | | |
| 024 | 10980 | 1674 | V 23.311 | | | |
| 025 | 10160 | 713 | V 23.608 | | | |
| 026 | 16906 | 980 | V 25.032 | | | |
| 027 | 17792 | 2530 | V 25.817 | | | |
| 028 | 8040 | 1333 | V 25.997 | | | |
| 029 | 7727 | 527 | V 26.653 | | | |
| 030 | 59515 | 7993 | V 27.431 | | | |
| 031 | 10612 | 1110 | V 28.024 | | | |
| 032 | 27177 | 3049 | V 28.512 | 1 | 1,3-DICHLOROBENZENE | 2.360 |
| 033 | 11278 | 1589 | V 29.283 | 1 | 1,4-DICHLOROBENZENE | 1.349 |
| 034 | 16206 | 978 | V 30.311 | 1 | 1,2-DICHLOROBENZENE | 0.947 |
| 035 | 25629 | 543 | V 31.649 | | | |
| 036 | 19330 | 679 | V 31.979 | | | |
| 037 | 11264 | 1499 | V 33.532 | | | |
| 038 | 131971 | 14833 | V 33.847 | | | |
| 039 | 16588 | 3134 | V 34.066 | | | |

10000
115 pt

SAMPLE: 12309311 .10

PAGE NUMBER: 2

DATE-TIME INJECTED : 12/30/93 18:10:00

DATE-TIME PROCESSED : 12/30/93 18:50:41

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR COMPONENT # | NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|----------------------|------|-----------------------|
| 040 | 11847 | 586 | V | 36.734 | | | |
| 041 | 15650 | 449 | V | 37.561 | | | |
| 042 | 5255 | 565 | V | 38.928 | | | |
| 043 | 50515 | 4835 | | 39.516 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-22Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-003Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338603Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | | | |
|----------------|----------------|-----|-----|
| 71-43-2----- | Benzene | 1.0 | BRL |
| 108-88-3----- | Toluene | 1.0 | BRL |
| 100-41-4----- | Ethylbenzene | | E |
| 1330-20-7----- | Xylene (Total) | | E |

12/88 Rev.

9312L056-003

SAMPLE NO. : 12309311 . 05 DIL:1.0000 INSTRUMENT: 11
TEST NO. :

METHOD NO. :

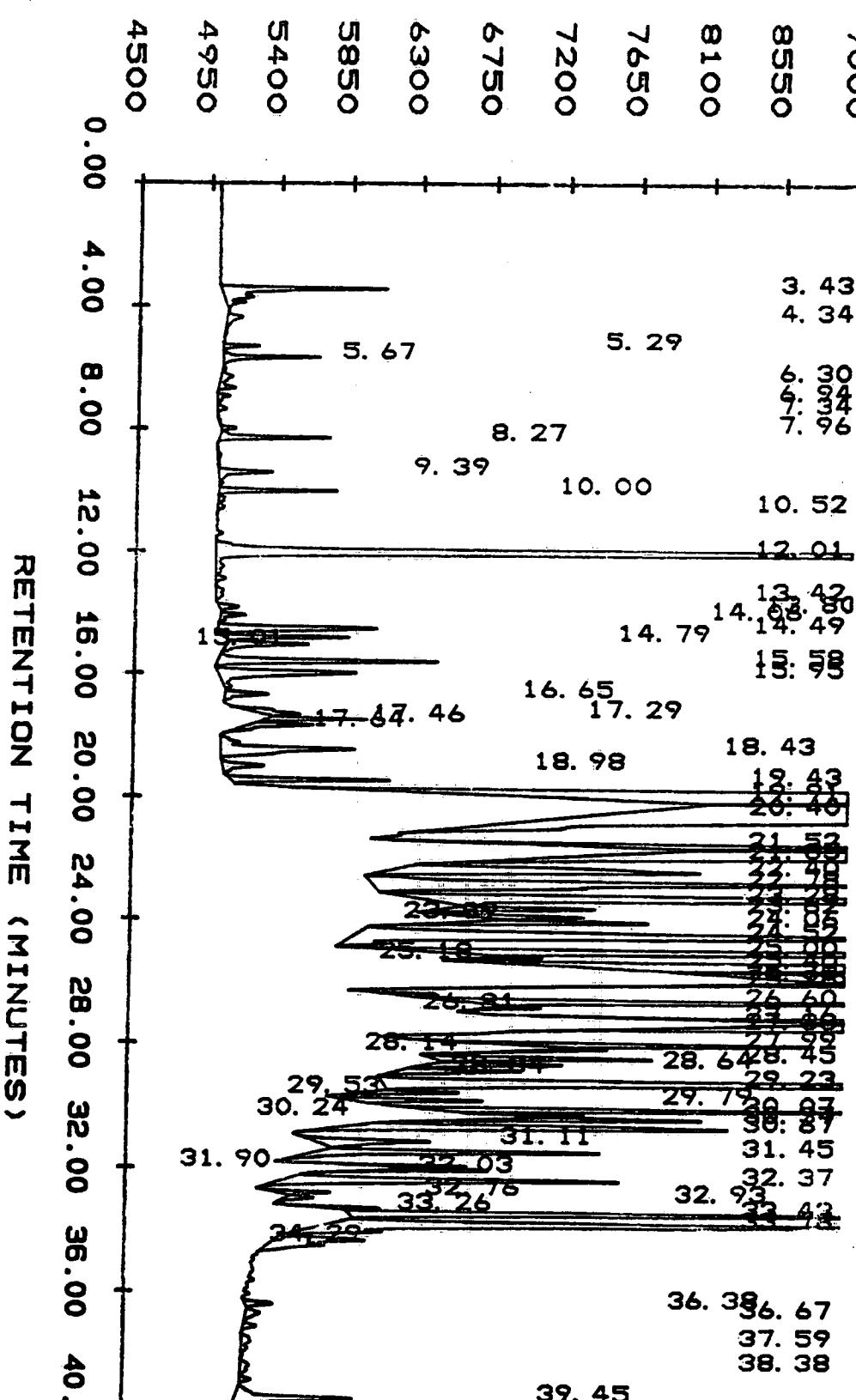
11C / 11C

DATE TIME:

12/30/93 12:18:11

PAGE NO. :

01



RETENTION TIME (MINUTES)

Y MAXIMUM: 9000.
Y MINIMUM: 4500.

START TIME: 0.00
END TIME: 40.00

EXTERNAL STANDARD

SAMPLE: 12309311 .05

INST:11 VIAL:F0 SEQ NUMBER:005

TEST : 08020

DATE-TIME INJECTED : 12/30/93 12:18:11

COLLECTION TIME : 39.90

DATE-TIME PROCESSED : 12/30/93 12:58:37

METHOD: 11C / 11C REV #: 00119 ANALYST: KOUVAKAS SAMP RATE: 1.56

CLIENT ID: MW-22

SAMPLE VOL:

CLIENT: L.E. Carpenter

COLUMN TYPE: 5000UL DB-624

LAB ID: 9312L056-003

RAW FILE: RAW1:LU338603

SAMPLE WT :

% MOISTURE :

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR COMPONENT # | NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|-------------------|----------------------|-----------------------|
| 001 | 95535 | 10450 | V | 3.426 | | | |
| 002 | 12258 | 972 | V | 4.343 | | | |
| 003 | 11262 | 2252 | V | 5.293 | | | |
| 004 | 36846 | 6095 | V | 5.669 | | | |
| 005 | 18298 | 750 | V | 6.298 | | | |
| | | | | 6.653 | 1 | MTBE | |
| 006 | 6133 | 810 | V | 6.935 | | | |
| 007 | 4975 | 574 | V | 7.340 | | | |
| 008 | 6100 | 976 | V | 7.963 | | | |
| 009 | 42590 | 7031 | V | 8.269 | | | |
| 010 | 30776 | 3428 | V | 9.395 | | | |
| 011 | 42030 | 7448 | V | 9.998 | 1 | BENZENE | 0.222 |
| 012 | 8715 | 455 | V | 10.525 | | | |
| 013 | 1473757 | 217848 | V | 12.009 | 1 | a,a,a-TRIFLUOROTOLUE | 23.762 |
| 014 | 8187 | 439 | V | 13.419 | | | |
| 015 | 10203 | 1230 | V | 13.803 | | | |
| 016 | 10800 | 1574 | V | 14.060 | | | |
| 017 | 92776 | 10023 | V | 14.489 | | | |
| 018 | 42784 | 7834 | V | 14.790 | 1 | TOLUENE | 0.255 |
| 019 | 42779 | 5181 | V | 15.014 | | | |
| 020 | 108141 | 13881 | V | 15.577 | | | |
| 021 | 101005 | 8778 | V | 15.954 | | | |
| 022 | 21567 | 2747 | V | 16.653 | | | |
| 023 | 24697 | 2330 | V | 17.289 | | | |
| 024 | 33500 | 6319 | V | 17.455 | | | |
| 025 | 31766 | 4042 | V | 17.640 | | | |
| 026 | 104260 | 8513 | V | 18.428 | | | |
| 027 | 24979 | 2667 | V | 18.975 | | | |
| 028 | 61736 | 10068 | V | 19.428 | 1 | CHLOROBENZENE | 0.335 |
| 029 | 12660601 | 993684 | V | 19.915 | 1 | ETHYLBENZENE | 37.818 E |
| 030 | 17200800 | 988633 | V | 20.405 | 1 | M,P-XYLENE | 33.721 E |
| 031 | 156771 | 19939 | V | 21.521 | | | |
| 032 | 10967911 | 990208 | V | 21.845 | 1 | XYLENE (TOTAL) | 39.366 E |
| 033 | 225549 | 19472 | V | 22.396 | | | |
| 034 | 374747 | 31361 | V | 22.779 | | | |
| 035 | 1271273 | 179456 | V | 23.281 | | | |
| 036 | 57063 | 9332 | V | 23.622 | | | |
| 037 | 47312 | 6543 | V | 23.890 | | | |
| 038 | 81914 | 12034 | V | 24.062 | | | |
| 039 | 455405 | 32025 | V | 24.519 | | | |

K. C. Johnson
12/30/93

SAMPLE: 12309311 .05
DATE-TIME INJECTED : 12/30/93 12:18:11
DATE-TIME PROCESSED : 12/30/93 12:58:37

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL MINUTES | RT # | GR COMPONENT | HEIGHT | CONC | PPB |
|-------|-----------|-------------|------------|--------|-----------------------|--------|-------|-----|
| 040 | 571639 | 90576 | V | 24.999 | | | | |
| 041 | 15862 | 3598 | V | 25.180 | | | | |
| 042 | 974837 | 108959 | V | 25.399 | | | | |
| 043 | 1113187 | 168260 | V | 25.785 | | | | |
| 044 | 76583 | 14951 | V | 25.976 | | | | |
| 045 | 246190 | 31528 | V | 26.605 | | | | |
| 046 | 17664 | 3318 | V | 26.810 | | | | |
| 047 | 96944 | 16047 | V | 27.161 | | | | |
| 048 | 2794931 | 413754 | V | 27.385 | | | | |
| 049 | 117281 | 18623 | V | 27.993 | | | | |
| 050 | 19894 | 3679 | V | 28.139 | | | | |
| 051 | 86038 | 13510 | V | 28.446 | | | | |
| 052 | 46699 | 8163 | V | 28.639 | 1 1,3-DICHLOROBENZENE | | 0.316 | |
| 053 | 48849 | 6850 | V | 28.843 | 1 1,4-DICHLOROBENZENE | | 0.291 | |
| 054 | 734728 | 99258 | V | 29.232 | | | | |
| 055 | 34339 | 5829 | V | 29.532 | | | | |
| 056 | 50206 | 8162 | V | 29.785 | | | | |
| 057 | 167508 | 29955 | V | 30.072 | | | | |
| 058 | 18509 | 4353 | V | 30.238 | | | | |
| 059 | 75310 | 13227 | V | 30.366 | | | | |
| 060 | 224761 | 24339 | V | 30.667 | 1 1,2-DICHLOROBENZENE | | 1.178 | |
| 061 | 65091 | 7161 | V | 31.111 | | | | |
| 062 | 132092 | 17630 | V | 31.451 | | | | |
| 063 | 27588 | 5148 | V | 31.901 | | | | |
| 064 | 30794 | 6664 | V | 32.026 | | | | |
| 065 | 187189 | 20762 | V | 32.365 | | | | |
| 066 | 19268 | 3283 | V | 32.760 | | | | |
| 067 | 10768 | 1730 | V | 32.928 | | | | |
| 068 | 17642 | 3454 | V | 33.255 | | | | |
| 069 | 251286 | 36614 | V | 33.431 | | | | |
| 070 | 376576 | 34352 | V | 33.780 | | | | |
| 071 | 86062 | 5730 | V | 34.295 | | | | |
| 072 | 12678 | 1767 | V | 36.378 | | | | |
| 073 | 17807 | 917 | V | 36.669 | | | | |
| 074 | 14680 | 588 | V | 37.589 | | | | |
| 075 | 15510 | 561 | V | 38.385 | | | | |
| 076 | 86692 | 7413 | | 39.448 | | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

MW-22DL

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-003 DLSample wt/vol: 5.0 (g/mL) MLLab File ID: A6444291Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 01/06/94Column: (pack/cap) CAPDilution Factor: 50.0

CAS NO.

COMPOUND

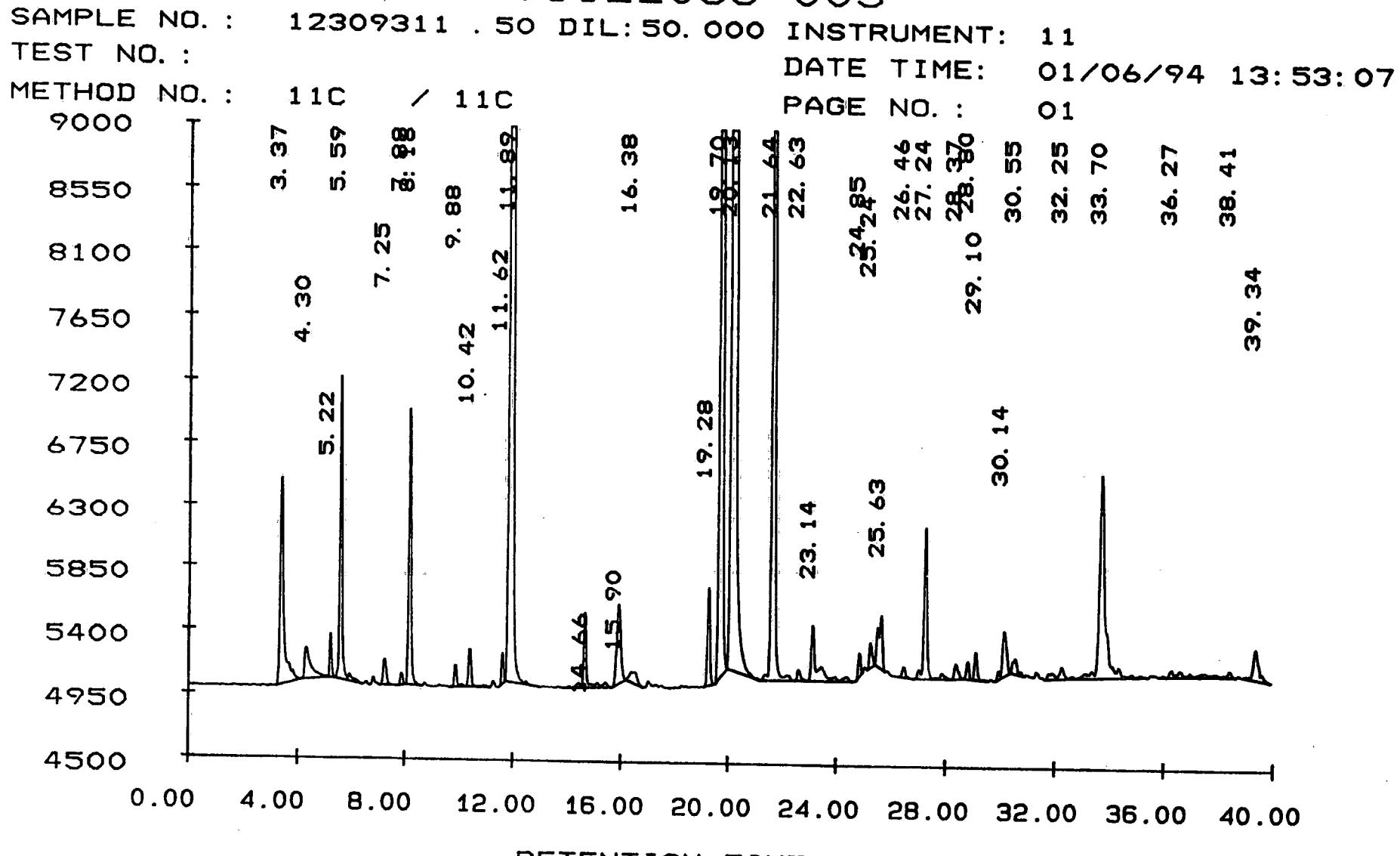
CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

| | | |
|------------------------------|------|--|
| 71-43-2-----Benzene | NA | |
| 108-88-3-----Toluene | NA | |
| 100-41-4-----Ethylbenzene | 290 | |
| 1330-20-7-----Xylene (Total) | 1200 | |

12/88 Rev.

9312L056-003



EXTERNAL STANDARD

SAMPLE: 12309311 .50
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: KOVAKAS SAMP RATE: 1.56
 CLIENT ID: MW-22 SAMPLE VOL:
 CLIENT: L.E. Carpenter COLUMN TYPE: 5000UL DB-624
 LAB ID: 9312L056-003 RAW FILE: RAW1:A6444291
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 50.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL MINUTES | RT # | GR COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|---------------|---------|--------------------------|-----------------------|
| 001 | 135014 | 14857 | V | 3.374 | | |
| 002 | 36349 | 2233 | V | 4.295 | | |
| 003 | 15275 | 3033 | V | 5.219 | | |
| 004 | 129999 | 21465 | V | 5.589 | | |
| | | | | 6.653 | 1 MTBE | |
| 005 | 15583 | 1854 | V | 7.254 | | |
| 006 | 5774 | 843 | V | 7.876 | | |
| 007 | 118818 | 19649 | | 8.157 | | |
| 008 | 11628 | 1568 | V | 9.884 | 1 BENZENE | <u>2.337</u> |
| 009 | 19752 | 2654 | V | 10.416 | | |
| 010 | 11832 | 2142 | V | 11.622 | | |
| 011 | 1446161 | 209935 | | 11.888 | 1 a,a,a-TRIFLUOROTOLUENE | <u>144.920</u> |
| 012 | 48280 | 5261 | V | 14.656 | 1 TOLUENE | <u>8.577</u> |
| 013 | 59342 | 5572 | V | 15.904 | | |
| 014 | 15694 | 732 | V | 16.375 | | |
| 015 | 43057 | 6823 | V | 19.278 | 1 CHLOROBENZENE | <u>11.342</u> |
| 016 | 1023808 | 154349 | V | 19.696 | 1 ETHYLBENZENE | <u>293.714</u> |
| 017 | 4235329 | 610074 | V | 20.133 | 1 M,P-XYLENE | <u>1040.450</u> |
| 018 | 593873 | 85799 | V | 21.640 | 1 XYLENE (TOTAL) | <u>170.550</u> |
| 019 | 7336 | 786 | V | 22.627 | | |
| 020 | 57324 | 3874 | V | 23.137 | | |
| 021 | 9071 | 1570 | V | 24.850 | | |
| 022 | 12327 | 1711 | V | 25.241 | | |
| 023 | 40736 | 3708 | V | 25.634 | | |
| 024 | 7082 | 779 | V | 26.463 | | |
| 025 | 87748 | 10766 | V | 27.245 | | |
| 026 | 11013 | 1088 | V | 28.368 | 1 1,3-DICHLOROBENZENE | <u>2.106</u> |
| 027 | 8908 | 1240 | V | 28.802 | | |
| 028 | 14355 | 1954 | V | 29.098 | 1 1,4-DICHLOROBENZENE | <u>4.147</u> |
| 029 | 35275 | 3166 | V | 30.143 | | |
| 030 | 13555 | 1094 | V | 30.547 | 1 1,2-DICHLOROBENZENE | <u>2.648</u> |
| 031 | 19510 | 852 | V | 32.254 | | |
| 032 | 212224 | 14646 | V | 33.698 | | |
| 033 | 24858 | 518 | V | 36.267 | | |
| 034 | 5234 | 451 | V | 38.408 | | |
| 035 | 31729 | 2166 | | 39.338 | | |



GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-25Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-004Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338639Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 1.0

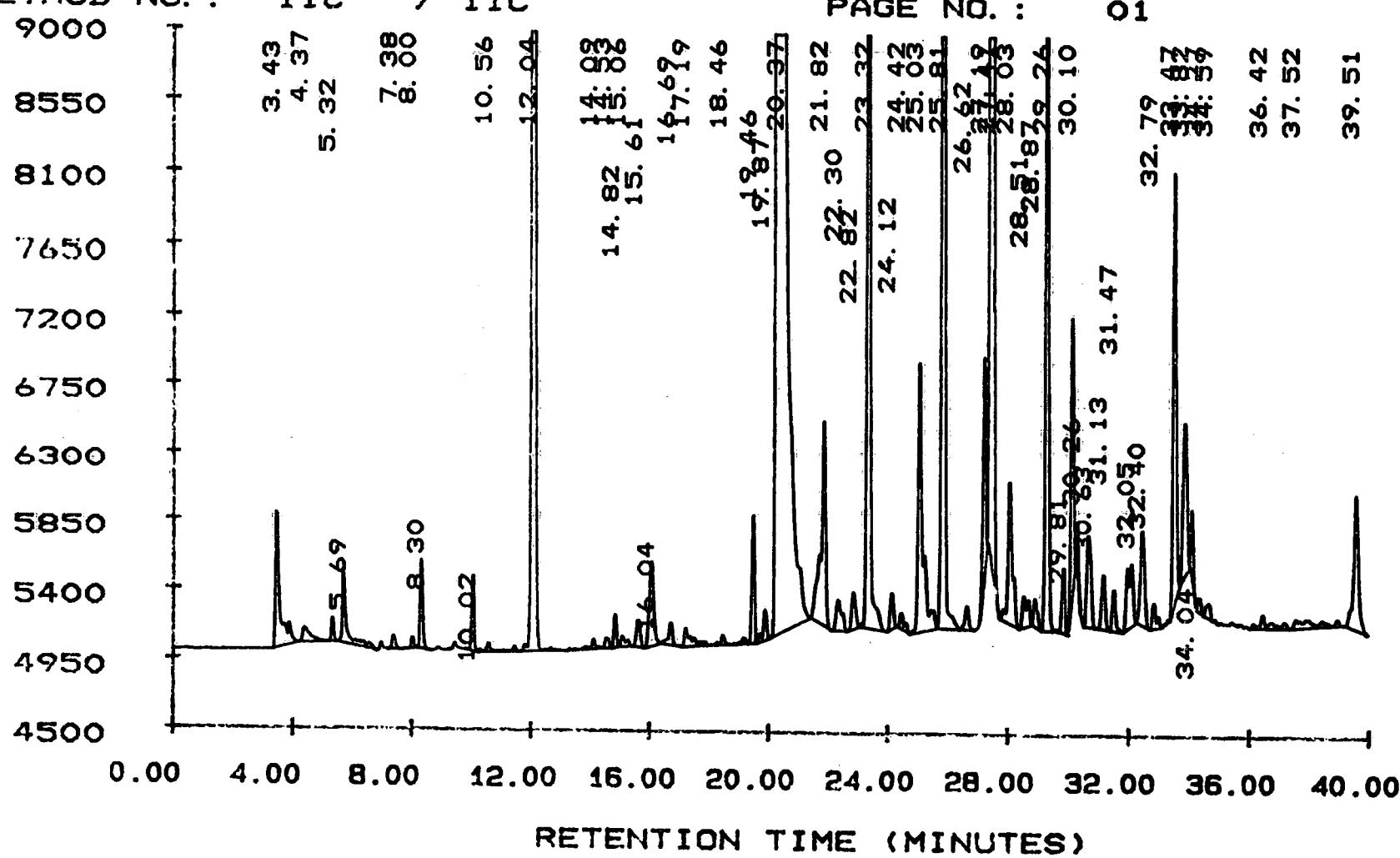
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | | |
|------------------------------|-----|-----|
| 71-43-2-----Benzene | 1.0 | BRL |
| 108-88-3-----Toluene | 1.0 | U |
| 100-41-4-----Ethylbenzene | 1.0 | U |
| 1330-20-7-----Xylene (Total) | | E |

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9312L056-004

SAMPLE NO. : 12309311 . 07 DIL: 1. 0000 INSTRUMENT: 11
 TEST NO. :
 METHOD NO. : 11C / 11C DATE TIME: 12/30/93 14:53:14
 PAGE NO. : 01



EXTERNAL STANDARD

SAMPLE: 12309311 .07

TEST : 08020

COLLECTION TIME : 39.90

METHOD: 11C / 11C REV #: 00119

CLIENT ID: MW-25

CLIENT: L.E. Carpenter

LAB ID: 9312L056-004

SAMPLE WT :

% MOISTURE :

INST:11 VIAL:F0 SEQ NUMBER:007

DATE-TIME INJECTED : 12/30/93 14:53:14

DATE-TIME PROCESSED : 12/30/93 15:33:56

ANALYST: MNZANO SAMP RATE: 1.56

SAMPLE VOL:

COLUMN TYPE: 5000UL DB-624

RAW FILE: RAW1:LU338639

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|---------------------|-----------------------|
| 001 | 88562 | 8754 | V | 3.434 | | | |
| 002 | 17714 | 946 | V | 4.371 | | | |
| 003 | 7841 | 1478 | V | 5.316 | | | |
| 004 | 45781 | 4432 | V | 5.692 | | | |
| | | | | 6.653 | 1 | MTBE | |
| 005 | 7507 | 887 | V | 7.377 | | | |
| 006 | 4887 | 712 | V | 8.004 | | | |
| 007 | 34727 | 5693 | V | 8.297 | | | |
| 008 | 27545 | 4765 | V | 10.025 | 1 | BENZENE | 0.142 |
| 009 | 14007 | 592 | V | 10.560 | | | |
| 010 | 1300525 | 200015 | V | 12.040 | 1 | a,a,a-TRIFLUOROTOLU | 21.816 |
| 011 | 10635 | 658 | V | 14.088 | | | |
| 012 | 6982 | 668 | V | 14.532 | | | |
| 013 | 11897 | 2117 | V | 14.822 | 1 | TOLUENE | <u>0.069</u> |
| 014 | 9011 | 697 | V | 15.058 | | | |
| 015 | 15378 | 1799 | V | 15.606 | | | |
| 016 | 57247 | 5446 | V | 16.041 | | | |
| 017 | 14517 | 1418 | V | 16.688 | | | |
| 018 | 21194 | 1206 | V | 17.189 | | | |
| 019 | 6118 | 629 | V | 18.455 | | | |
| 020 | 53632 | 8236 | V | 19.457 | 1 | CHLOROBENZENE | 0.274 |
| 021 | 16798 | 1928 | V | 19.868 | 1 | ETHYLBENZENE | <u>0.073</u> |
| 022 | 13632263 | 1012719 | V | 20.373 | 1 | M,P-XYLENE | 34.543 E |
| 023 | 141478 | 13369 | V | 21.820 | 1 | XYLENE (TOTAL) | 0.531 |
| 024 | 27564 | 1991 | V | 22.297 | | | |
| 025 | 21554 | 2368 | V | 22.815 | | | |
| 026 | 425896 | 58202 | V | 23.316 | | | |
| 027 | 17728 | 2294 | V | 24.117 | | | |
| 028 | 11498 | 1072 | V | 24.421 | | | |
| 029 | 180794 | 17677 | V | 25.026 | | | |
| 030 | 606820 | 88430 | V | 25.808 | | | |
| 031 | 14267 | 1556 | V | 26.619 | | | |
| 032 | 87708 | 14087 | V | 27.190 | | | |
| 033 | 1610627 | 240723 | V | 27.413 | | | |
| 034 | 92493 | 9294 | V | 28.030 | | | |
| 035 | 25571 | 2012 | V | 28.508 | 1 | 1,3-DICHLOROBENZENE | 0.078 |
| 036 | 16357 | 1795 | V | 28.868 | 1 | 1,4-DICHLOROBENZENE | 0.076 |
| 037 | 316449 | 47239 | V | 29.260 | | | |
| 038 | 28436 | 4204 | V | 29.813 | | | |
| 039 | 103807 | 17904 | V | 30.097 | | | |

Karenne 1/5/94

SAMPLE: 12309311 .07
DATE-TIME INJECTED : 12/30/93 14:53:14
DATE-TIME PROCESSED : 12/30/93 15:33:56

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|---------------------|-----------------|
| 040 | 16513 | 3684 | V | 30.258 | | | |
| 041 | 57850 | 5987 | V | 30.634 | 1 | 1,2-DICHLOROBENZENE | 0.290 |
| 042 | 28582 | 3546 | V | 31.132 | | | |
| 043 | 20090 | 2681 | V | 31.474 | | | |
| 044 | 53370 | 3971 | V | 32.053 | | | |
| 045 | 57354 | 6154 | V | 32.402 | | | |
| 046 | 14611 | 1621 | V | 32.795 | | | |
| 047 | 198330 | 27870 | V | 33.468 | | | |
| 048 | 86444 | 10054 | V | 33.816 | | | |
| 049 | 26444 | 4807 | V | 34.038 | | | |
| 050 | 8044 | 951 | V | 34.269 | | | |
| 051 | 11122 | 980 | V | 34.594 | | | |
| 052 | 23928 | 880 | V | 36.423 | | | |
| 053 | 30630 | 609 | V | 37.521 | | | |
| 054 | 95034 | 8812 | | 39.513 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

MW-25DL

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-004 DLSample wt/vol: 5.0 (g/mL) MLLab File ID: LU338720Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 20.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

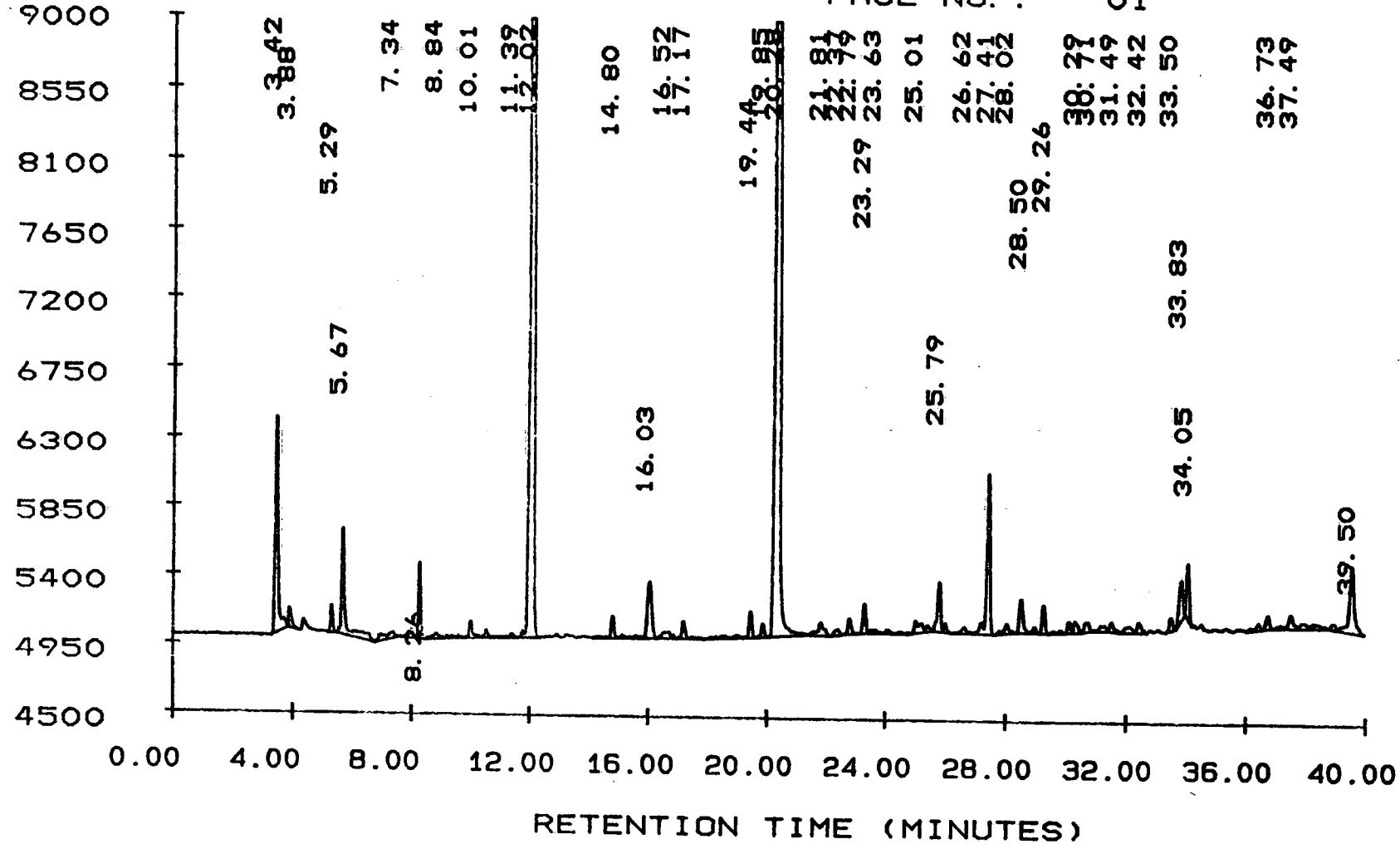
| CAS NO. | COMPOUND | NA | |
|----------------|----------------|-----|--|
| 71-43-2----- | Benzene | NA | |
| 108-88-3----- | Toluene | NA | |
| 100-41-4----- | Ethylbenzene | NA | |
| 1330-20-7----- | Xylene (Total) | 260 | |

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9312L056-004

SAMPLE NO. : 12309311 . 12 DIL: 20. 000 INSTRUMENT: 11
TEST NO. :
METHOD NO. : 11C / 11C

DATE TIME: 12/30/93 20:25:43
PAGE NO. : 01



Y MAXIMUM: 9000.
Y MINIMUM: 4500.

START TIME: 0. 00
END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .12
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56
 CLIENT ID: MW-25 SAMPLE VOL:
 CLIENT: L.E. Carpenter COLUMN TYPE: 5000UL DB-624
 LAB ID: 9312L056-004 RAW FILE: RAW1:LU338720
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 20.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|---------------------|-----------------|
| 001 | 98072 | 14109 | V | 3.424 | | | |
| 002 | 8188 | 1314 | V | 3.877 | | | |
| 003 | 8800 | 1785 | V | 5.294 | | | |
| 004 | 57363 | 6834 | V | 5.668 | | | |
| | | | | 6.653 | 1 | MTBE | |
| 005 | 11470 | 429 | V | 7.343 | | | |
| 006 | 34296 | 4963 | V | 8.260 | | | |
| 007 | 9720 | 357 | V | 8.837 | | | |
| 008 | 12429 | 1087 | V | 10.007 | 1 | BENZENE | -0.648 |
| 009 | 4476 | 325 | V | 11.395 | | | |
| 010 | 1260845 | 194096 | V | 12.020 | 1 | a,a,a-TRIFLUOROTOLU | 423.417 21.17 |
| 011 | 14233 | 1391 | V | 14.800 | 1 | TOLUENE | -0.907 |
| 012 | 35507 | 3698 | V | 16.033 | | | |
| 013 | 8283 | 399 | V | 16.524 | | | |
| 014 | 9088 | 1125 | V | 17.166 | | | |
| 015 | 16686 | 1710 | V | 19.437 | 1 | CHLOROBENZENE | 1.137 |
| 016 | 5883 | 867 | V | 19.853 | 1 | ETHYLBENZENE | 0.660 |
| 017 | 2556169 | 387800 | V | 20.284 | 1 | M,P-XYLENE | 264.549 |
| 018 | 13605 | 878 | V | 21.806 | 1 | XYLENE (TOTAL) | 0.698 |
| 019 | 4491 | 377 | V | 22.373 | | | |
| 020 | 7367 | 1025 | V | 22.786 | | | |
| 021 | 13079 | 1946 | V | 23.294 | | | |
| 022 | 8124 | 203 | V | 23.629 | | | |
| 023 | 15096 | 801 | V | 25.015 | | | |
| 024 | 27288 | 3209 | V | 25.791 | | | |
| 025 | 5577 | 438 | V | 26.618 | | | |
| 026 | 76905 | 10438 | V | 27.412 | | | |
| 027 | 8629 | 639 | V | 28.024 | | | |
| 028 | 20884 | 2187 | V | 28.504 | 1 | 1,3-DICHLOROBENZENE | 1.693 |
| 029 | 11896 | 1824 | V | 29.255 | 1 | 1,4-DICHLOROBENZENE | 1.548 |
| 030 | 15638 | 746 | V | 30.293 | | | |
| 031 | 6795 | 592 | V | 30.706 | 1 | 1,2-DICHLOROBENZENE | 0.573 |
| 032 | 12508 | 638 | V | 31.490 | | | |
| 033 | 14319 | 686 | V | 32.416 | | | |
| 034 | 6614 | 820 | V | 33.504 | | | |
| 035 | 20913 | 2566 | V | 33.831 | | | |
| 036 | 22742 | 3655 | V | 34.051 | | | |
| 037 | 13017 | 856 | V | 36.727 | | | |
| 038 | 24920 | 867 | V | 37.493 | | | |
| 039 | 52774 | 4285 | V | 39.500 | | | |

K. Brown
12/30/93

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

Trip Blank

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-005Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338665Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAP

Dilution F

Column: (pack/cap) CAPDilution Factor: 1.0

CAS NO.

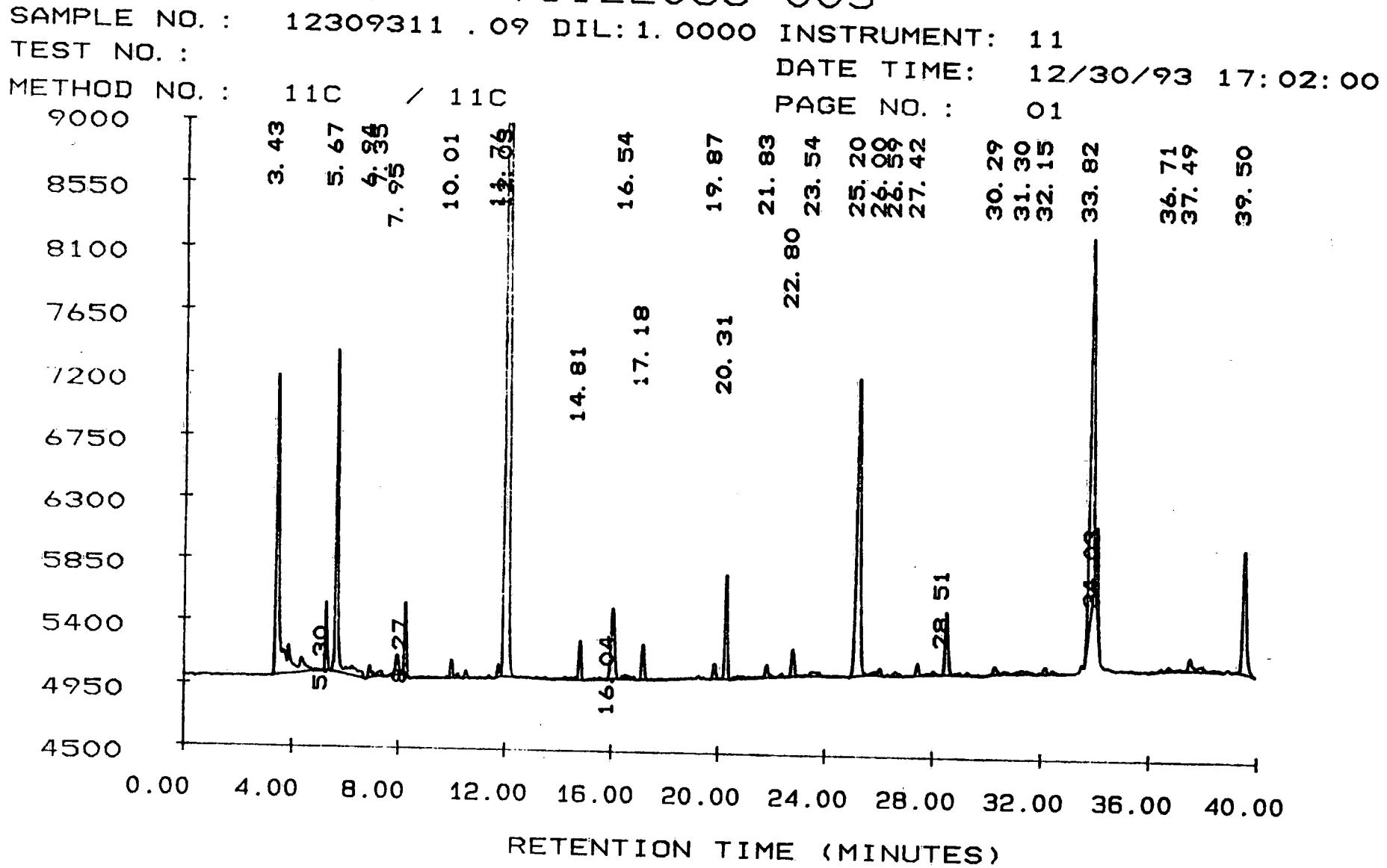
COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | | | |
|----------------|----------------|-----|-----|
| 71-43-2----- | Benzene | 1.0 | U |
| 108-88-3----- | Toluene | 1.0 | U |
| 100-41-4----- | Ethylbenzene | 1.0 | U |
| 1330-20-7----- | XyIene (Total) | 2.0 | BRL |

12/88 Rev.

9312L056-005



Y MAXIMUM: 9000.

Y MINIMUM: 4500.

START TIME: 0.00

END TIME: 40.00

EXTERNAL STANDARD

SAMPLE: 12309311 .09
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO
 CLIENT ID: Trip Blank
 CLIENT: L.E. Carpenter
 LAB ID: 9312L056-005
 SAMPLE WT : % MOISTURE :
 INST:11 VIAL:FO SEQ NUMBER:009
 DATE-TIME INJECTED : 12/30/93 17:02:00
 DATE-TIME PROCESSED : 12/30/93 17:42:29
 SAMP RATE: 1.56
 SAMPLE VOL:
 COLUMN TYPE: 5000UL DB-624
 RAW FILE: RAW1:LU338665
 DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|---------------|------|----------------------|-----------------|
| 001 | 205254 | 21763 | V 3.426 | | | |
| 002 | 22932 | 4780 | V 5.295 | | | |
| 003 | 150025 | 23194 | V 5.671 | | | |
| | | | 6.653 | 1 | MTBE | |
| 004 | 7169 | 889 | V 6.937 | | | |
| 005 | 4340 | 408 | V 7.345 | | | |
| 006 | 11212 | 1444 | V 7.953 | | | |
| 007 | 29930 | 5247 | V 8.266 | | | |
| 008 | 24166 | 1322 | V 10.006 | 1 | BENZENE | 0.039 |
| 009 | 5146 | 905 | V 11.755 | | | |
| 010 | 1286093 | 195493 | V 12.026 | 1 | a,a,a-TRIFLUOROTOLUE | 21.323 |
| 011 | 24065 | 2804 | V 14.812 | 1 | TOLUENE | 0.091 |
| 012 | 51278 | 5042 | V 16.041 | | | |
| 013 | 7916 | 327 | V 16.541 | | | |
| 014 | 17754 | 2534 | V 17.178 | | | |
| | | | 19.439 | 1 | CHLOROBENZENE | |
| 015 | 7093 | 1073 | V 19.871 | 1 | ETHYLBENZENE | 0.041 |
| 016 | 46132 | 7396 | V 20.309 | 1 | M,P-XYLENE | 0.252 |
| 017 | 19996 | 926 | V 21.826 | 1 | XYLENE (TOTAL) | 0.037 |
| 018 | 13862 | 1955 | V 22.803 | | | |
| 019 | 9423 | 349 | 23.538 | | | 0.252 |
| 020 | 208931 | 21660 | V 25.198 | | | |
| 021 | 6739 | 542 | V 26.003 | | | |
| 022 | 6687 | 332 | V 26.590 | | | |
| 023 | 12507 | 908 | V 27.423 | | | |
| 024 | 37334 | 4396 | V 28.505 | 1 | 1,3-DICHLOROBENZENE | 0.170 |
| | | | 28.962 | 1 | 1,4-DICHLOROBENZENE | |
| 025 | 6210 | 589 | V 30.293 | 1 | 1,2-DICHLOROBENZENE | 0.029 |
| 026 | 10908 | 268 | V 31.305 | | | |
| 027 | 8479 | 541 | V 32.155 | | | |
| 028 | 243946 | 27303 | V 33.818 | | | |
| 029 | 30154 | 5889 | 34.034 | | | |
| 030 | 6452 | 324 | V 36.708 | | | |
| 031 | 22536 | 930 | V 37.494 | | | |
| 032 | 81755 | 8921 | 39.499 | | | |

IV. Standards Data Package
A. Chromatograms/quant reports

LINEARITY STANDARDS

| | |
|--------------|--|
| SYSTEM: | |
| COLUMN: | |
| ATTENUATION: | |
| DETECTOR: | |
| WAVELENGTH: | |
| FLOW RATE: | |
| PRESURE: | |

INJECTION INJECTION

| COMPOUND | RET TIME | STD | PK-HI | | | | PK-MT | | | | PK-HI | | | | PK-MT | | | | | |
|---------------------------|----------|------|---------|--------|--------|---------|---------|-------|---------|--------|---------|---------|--------|------|---------|--------|---------|---------|-----------|------------|
| | | | STD CON | CF 1 | STD | STD CON | CF 2 | STD | STD CON | CF 3 | STD | STD CON | CF 4 | STD | STD CON | CF 5 | STD | STD CON | CF AVG OF | STD COMPND |
| 1) MIE | 5959 | 4.0 | 1487.5 | 15948 | 12.0 | 1388.3 | 36563 | 20.0 | 1725.2 | 67526 | 40.0 | 1588.2 | 126899 | 80.0 | 1566.7 | 1657.6 | 10.32 | 1 | | |
| 2) BENZENE | 33359 | 4.0 | 8339.8 | 10781 | 12.0 | 6731.8 | 13731 | 20.0 | 6998.6 | 27256 | 40.0 | 6812.6 | 530665 | 80.0 | 6533.6 | 7677.2 | 16.05 | 2 | | |
| 3) TOUCHE | 36665 | 4.0 | 7661.3 | 73328 | 12.0 | 6119.8 | 122866 | 20.0 | 6117.0 | 263756 | 40.0 | 6894.0 | 475601 | 80.0 | 6595.0 | 6365.9 | 11.22 | 3 | | |
| 4) CHLOROBENZENE | 27288 | 4.0 | 8822.0 | 69365 | 12.0 | 5752.9 | 122241 | 20.0 | 6112.1 | 26552 | 40.0 | 6142.3 | 48369 | 80.0 | 6228.9 | 6211.6 | 6.22 | 4 | | |
| 5) ETHYLENEDIE | 26517 | 4.0 | 6129.3 | 16897 | 12.0 | 5158.1 | 104341 | 20.0 | 5217.1 | 211249 | 40.0 | 5281.0 | 46731 | 80.0 | 5684.1 | 5373.9 | 7.57 | 5 | | |
| 6) M, <u>P</u> -XYLENE | 54489 | 8.0 | 6660.4 | 139468 | 24.0 | 57986 | 289866 | 40.0 | 5802.2 | 459767 | 60.0 | 5747.1 | 66147 | 80.0 | 5638.4 | 5639.0 | 6.33 | 6 | | |
| 7) XYLYL (TOTAL) | 23859 | 4.0 | 5982.5 | 61373 | 12.0 | 5114.4 | 183249 | 20.0 | 5152.9 | 265158 | 40.0 | 5154.0 | 400729 | 80.0 | 5609.1 | 5280.4 | 7.31 | 7 | | |
| 8) 1,3-DICHLOROBENZENE | 26219 | 4.0 | 6319.8 | 62667 | 12.0 | 5238.1 | 106129 | 20.0 | 5306.5 | 26634 | 40.0 | 5214.4 | 413913 | 80.0 | 5173.9 | 5659.5 | 8.56 | 8 | | |
| 9) 1,4-DICHLOROBENZENE | 26574 | 4.0 | 6143.6 | 63021 | 12.0 | 4951.8 | 96769 | 20.0 | 4788.0 | 192311 | 40.0 | 4887.8 | 389436 | 80.0 | 4853.0 | 4866.0 | 5.11 | 9 | | |
| 10) 1,2-DICHLOROBENZENE | 18167 | 4.0 | 4611.8 | 45931 | 12.0 | 3404.4 | 88632 | 20.0 | 4601.6 | 162815 | 40.0 | 4672.9 | 326015 | 80.0 | 4662.7 | 4169.1 | 6.38 | 10 | | |
| Avg Total CF | | | | | | | | | | | | | | | | | | | | |
| CONTINUING STANDARDS | | | | | | | | | | | | | | | | | | | | |
| 12309311.01 | | | | | | | | | | | | | | | | | | | | |
| CONT | STD | MT | STD | CONC | CF | \$ D | CONT | STD | MT | CF | \$ D | CONT | STD | MT | CF | \$ D | CONT | STD | CF | |
| PK | HT | (mg) | PK | HT | (mg) | PK | HT | PK | HT | (mg) | PK | HT | PK | HT | (mg) | PK | HT | PK | HT | |
| 1) MIE | 16330 | 12.0 | 1360.8 | 13.19 | 13393 | 12.0 | 1156.08 | 25.61 | 26014 | 12.0 | 1657.83 | 6.40 | 18749 | 12.0 | 1562 | 0.38 | ... | ... | ... | |
| 2) BENZENE | 86525 | 12.0 | 6710.4 | 5.18 | 86514 | 12.0 | 7376.17 | 4.22 | 99847 | 12.0 | 6255.92 | 16.63 | 78257 | 12.0 | 6271 | 0.95 | ... | ... | ... | |
| 3) TOLUENE | 73668 | 12.0 | 6134.0 | 3.95 | 78480 | 12.0 | 6533.39 | 2.31 | 78076 | 12.0 | 6566.35 | 1.99 | 66134 | 12.0 | 5511 | 2.55 | ... | ... | ... | |
| 4) CHLOROBENZENE | 72191 | 12.0 | 6015.9 | 3.15 | 75519 | 12.0 | 6331.58 | 1.93 | 70583 | 12.0 | 5875.25 | 5.42 | 65550 | 12.0 | 5463 | 8.92 | ... | ... | ... | |
| 5) 1,1,1-TRICHLORINE | 64961 | 12.0 | 5851.1 | 2.21 | 67654 | 12.0 | 5630.33 | 4.77 | 68836 | 12.0 | 5685.33 | 2.69 | 57477 | 12.0 | 4798 | 12.12 | ... | ... | ... | |
| 6) M, <u>P</u> -XYLENE | 148725 | 24.0 | 5653.5 | 1.27 | 147555 | 24.0 | 6152.33 | 3.59 | 146668 | 24.0 | 6192.00 | 4.26 | 12676 | 24.0 | 5257 | 9.37 | ... | ... | ... | |
| 7) XYLENE (TOTAL) | 68669 | 12.0 | 5630.8 | 4.73 | 65329 | 12.0 | 5944.06 | 3.10 | 66005 | 12.0 | 5663.75 | 5.24 | 55694 | 12.0 | 4625 | 12.54 | ... | ... | ... | |
| 8) 1,3-DICHLOROBENZENE | 162015 | 12.0 | 5167.9 | 5.19 | 63796 | 12.0 | 5312.17 | 2.54 | 66965 | 12.0 | 5686.90 | 8.12 | 63079 | 12.0 | 4549 | 5.21 | ... | ... | ... | |
| 9) 1,4-DICHLOROBENZENE | 16746 | 12.0 | 4711.7 | 1.98 | 57662 | 12.0 | 4755.17 | 1.07 | 53566 | 12.0 | 4530.00 | 8.00 | 45700 | 12.0 | 3988 | 4.89 | ... | ... | ... | |
| 10) 1,2-DICHLOROBENZENE | 49582 | 12.0 | 4131.8 | 0.55 | 50604 | 12.0 | 4167.00 | 1.41 | 41591 | 12.0 | 3474.25 | 15.45 | 40937 | 12.0 | 3411 | 3.99 | ... | ... | ... | |
| 12309311.54 | | | | | | | | | | | | | | | | | | | | |
| CONT | STD | 5 | STD | CONC | CF | \$ D | CONT | STD | 7 | STD | CONC | CF | \$ D | CONT | STD | 10 | STD | CONC | CF | |
| PK | HT | (mg) | PK | HT | (mg) | PK | HT | PK | HT | (mg) | PK | HT | PK | HT | (mg) | PK | HT | (mg) | PK | HT |
| 1) MIE | 17958 | 12.0 | 1697.33 | 4.48 | 17128 | 12.0 | 1597.33 | 15.54 | 63992 | 12.0 | 1532.67 | 16.49 | 62559 | 12.0 | 1606.66 | 12.0 | 1606.66 | 12.0 | 1606.66 | 12.0 |
| 2) BENZENE | 71728 | 12.0 | 6710.4 | 5.18 | 73668 | 12.0 | 6530.33 | 15.54 | 73668 | 12.0 | 6119.8 | 12.0 | 6119.8 | 12.0 | 6119.8 | 12.0 | 6119.8 | 12.0 | 6119.8 | 12.0 |
| 3) TOUCHE | 63992 | 12.0 | 6134.0 | 3.95 | 72191 | 12.0 | 6015.9 | 3.15 | 75519 | 12.0 | 6331.58 | 1.93 | 70583 | 12.0 | 5875.25 | 12.0 | 5875.25 | 12.0 | 5875.25 | 12.0 |
| 4) CHLOROBENZENE | 62559 | 12.0 | 6129.3 | 16.49 | 53130 | 12.0 | 4627.50 | 17.61 | 53130 | 12.0 | 4627.50 | 17.61 | 53130 | 12.0 | 4627.50 | 17.61 | 53130 | 12.0 | 4627.50 | 17.61 |
| 5) 1,1,1-TRICHLORINE | 51875 | 12.0 | 5630.8 | 4.73 | 51865 | 12.0 | 4323.75 | 18.12 | 51865 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 |
| 6) M, <u>P</u> -XYL (THE) | 51875 | 12.0 | 5630.8 | 4.73 | 51865 | 12.0 | 4323.75 | 18.12 | 51865 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 |
| 7) XYLYL (TOTAL) | 51875 | 12.0 | 5630.8 | 4.73 | 51865 | 12.0 | 4323.75 | 18.12 | 51865 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 |
| 8) 1,3-DICHLOROBENZENE | 51875 | 12.0 | 5630.8 | 4.73 | 51865 | 12.0 | 4323.75 | 18.12 | 51865 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 | 50666 | 12.0 | 4222.17 | 22.54 |

| 12304311.56 | | | | 12304311.34 | | | | 12304311.45 | | | | | |
|-------------|-----|------|--------|-------------|----|------|--------|-------------|------|---------|---------|--------|-------|
| CONT | STD | SI | STD | CONC | CF | \$ D | CONT | STD | SI | STD | CONC | CF | |
| PK | HT | (mg) | | | | | PK | HT | (mg) | | | | |
| 16330 | | 12.0 | 1360.8 | 13.19 | | | 13933 | | 12.0 | 1156.08 | 25.61 | 26014 | |
| 80625 | | 12.0 | 6710.4 | 5.18 | | | 73608 | | 12.0 | 7376.17 | 4.22 | 98847 | |
| 72191 | | 12.0 | 6134.0 | 3.95 | | | 78460 | | 12.0 | 6533.38 | 2.31 | 78076 | |
| 48661 | | 12.0 | 6015.9 | 3.15 | | | 75919 | | 17.0 | 6331.58 | 1.93 | 76583 | |
| 146725 | | 12.0 | 5285.1 | 2.21 | | | 67554 | | 12.0 | 5876.25 | 5.42 | 65569 | |
| 60359 | | 24.0 | 5663.5 | 1.27 | | | 107656 | | 12.0 | 5636.33 | 4.77 | 65836 | |
| 63015 | | 12.0 | 5630.8 | 4.73 | | | 65329 | | 12.0 | 6152.33 | 3.59 | 146666 | |
| 48532 | | 12.0 | 4111.7 | 1.98 | | | 6167.9 | | 12.0 | 5444.88 | 3.18 | 60045 | |
| | | | | | | | 61776 | | 12.0 | 6312.17 | 2.54 | 66936 | |
| | | | | | | | 56662 | | 12.0 | 5963.75 | 5.24 | 55494 | |
| | | | | | | | 56664 | | 12.0 | 5963.75 | 9.12 | 63809 | |
| | | | | | | | 12.0 | 4131.8 | 0.55 | 12.0 | 4157.00 | 1.41 | 41691 |
| | | | | | | | | | | 12.0 | 3474.25 | 15.45 | 46937 |
| | | | | | | | | | | | | 3.99 | 3411 |

| PEAK HT (mg) | CONC PPM | | | CONC PPM | | | CONC PPM | | |
|-----------------|-------------|---------|--------|-------------|------|--------|-------------|------|--------|
| | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| 17988 | 12.0 | 1491.33 | 4.48 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 71728 | 12.0 | 5977.33 | 15.54 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 63992 | 12.0 | 5532.67 | 16.49 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 63590 | 12.0 | 5215.83 | 16.83 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 53130 | 12.0 | 4427.50 | 17.51 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 116535 | 24.0 | 4936.36 | 16.84 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 51865 | 12.0 | 4323.75 | 18.12 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| 50666 | 12.0 | 4222.17 | 12.54 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |
| AMT | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 | 12.0 | 0.00 | 100.00 |

0.00
0.00
ERR

8020 STD

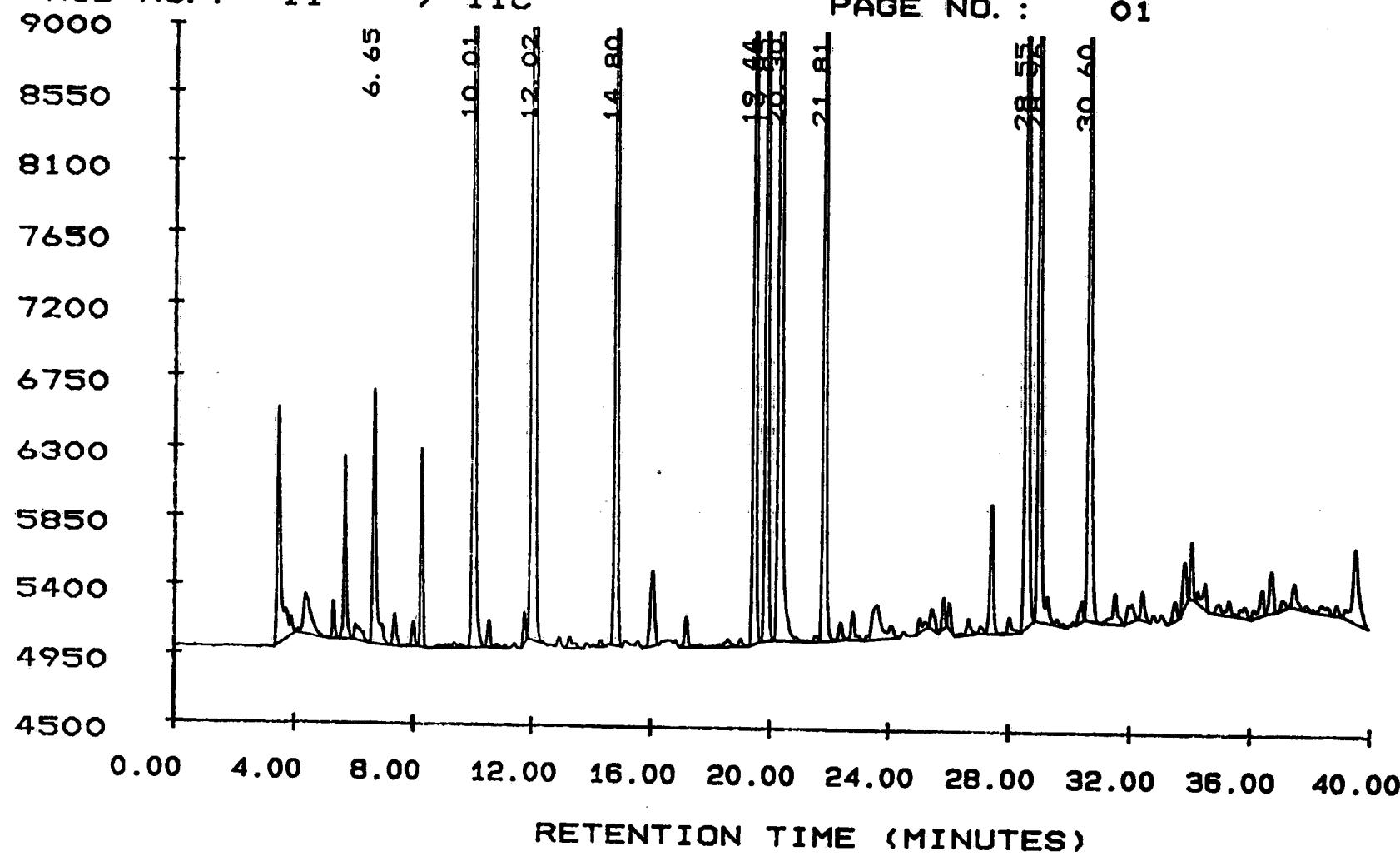
SAMPLE NO. : 12309311 . 01 DIL: 1. 0000 INSTRUMENT: 11

TEST NO. :

DATE TIME: 12/30/93 07:29:36

METHOD NO. : 11 / 11C

PAGE NO. : 01



Y MAXIMUM: 9000.

Y MINIMUM: 4500.

START TIME: 0.00

END TIME: 40.00

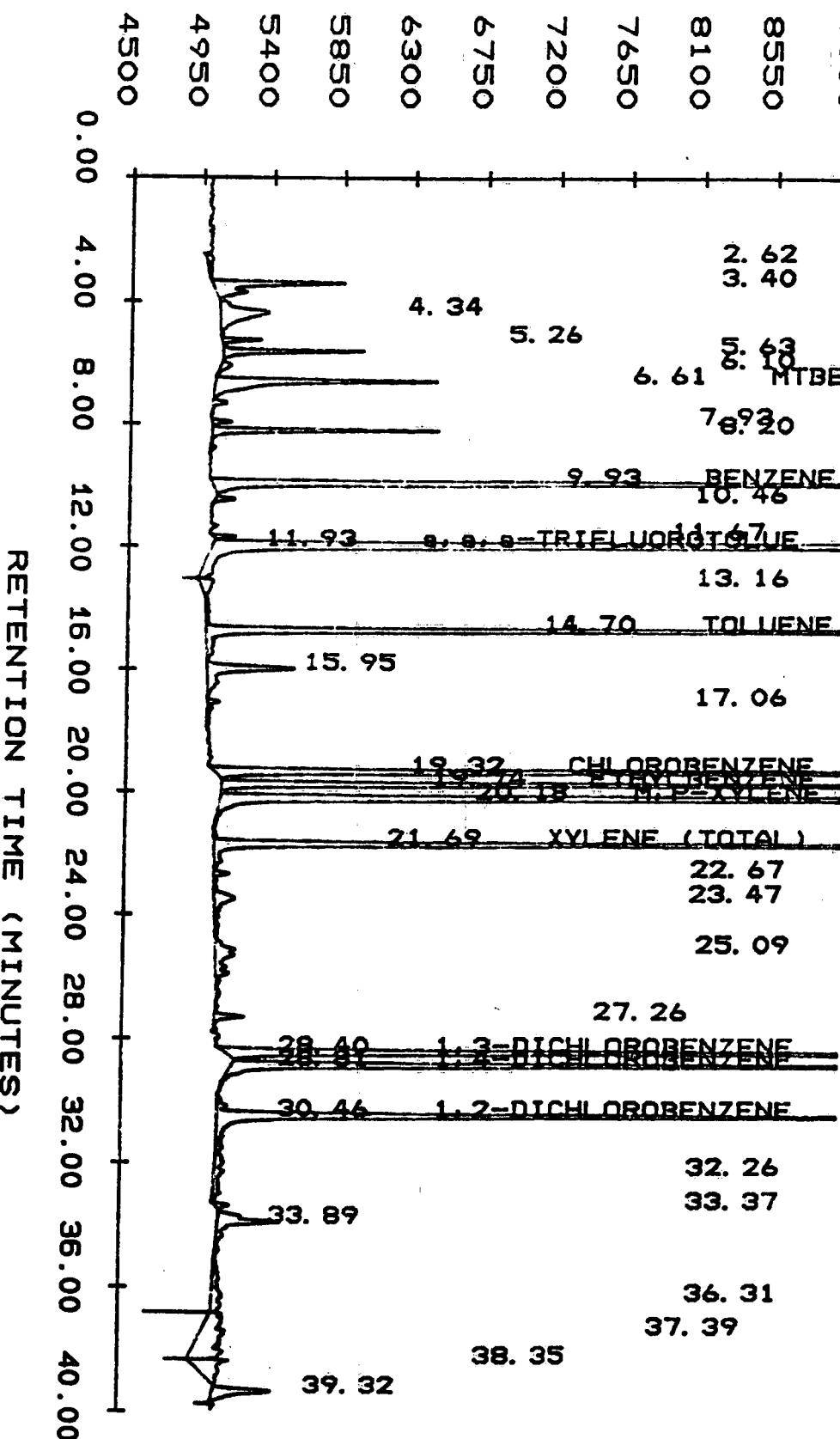
CALIBRATION EXTERNAL STANDARD (HEIGHT)

SAMPLE: 12309311 .01 INST:11 VIAL:F0 SEQ NUMBER:001
 TEST : DATE-TIME INJECTED : 12/30/93 07:29:36
 COLLECTION TIME : 39.90 DATE-TIME PROCESSED : 12/30/93 08:50:44
 METHOD: 11 / 11C REV #: 00119 ANALYST: KOUVAKAS SAMP RATE: 1.56
 CLIENT ID: SAMPLE VOL:
 CLIENT: COLUMN TYPE: 5000UL DB-624
 LAB ID: 8020 STD RAW FILE: RAW1:LU338550
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|----------------------|-----------------|
| 006 | 127827 | 16330 | V | 6.653 | 1 | MTBE | 2.400 |
| 011 | 480771 | 80525 | V | 10.005 | 1 | BENZENE | 2.400 |
| 014 | 1453307 | 220035 | V | 12.015 | 1 | a,a,a-TRIFLUOROTOLUE | 24.000 |
| 017 | 444362 | 73608 | V | 14.803 | 1 | TOLUENE | 2.400 |
| 021 | 448788 | 72191 | V | 19.439 | 1 | CHLOROBENZENE | 2.400 |
| 022 | 404960 | 63061 | V | 19.855 | 1 | ETHYLBENZENE | 2.400 |
| 023 | 978907 | 140725 | V | 20.299 | 1 | M,P-XYLENE | 4.800 |
| 024 | 399056 | 60369 | V | 21.811 | 1 | XYLENE (TOTAL) | 2.400 |
| 035 | 438168 | 62015 | V | 28.549 | 1 | 1,3-DICHLOROBENZENE | 2.400 |
| 036 | 400614 | 56540 | V | 28.962 | 1 | 1,4-DICHLOROBENZENE | 2.400 |
| 038 | 348688 | 49582 | V | 30.603 | 1 | 1,2-DICHLOROBENZENE | 2.400 |

STD 8020

SAMPLE NO. : 12309311 . 22 DIL: 1. 0000 INSTRUMENT: 11
 TEST NO. : DATE TIME: 01/03/94 15: 40: 20
 METHOD NO. : 11C / 11C PAGE NO. : 01
 9000
 8550
 8100
 7650
 7200
 6750
 6300
 5850
 5400
 4950
 4500



Y MAXIMUM: 9000.
 Y MINIMUM: 4500.

START TIME: 0. 00
 END TIME: 40. 00

EXTERNAL STANDARD

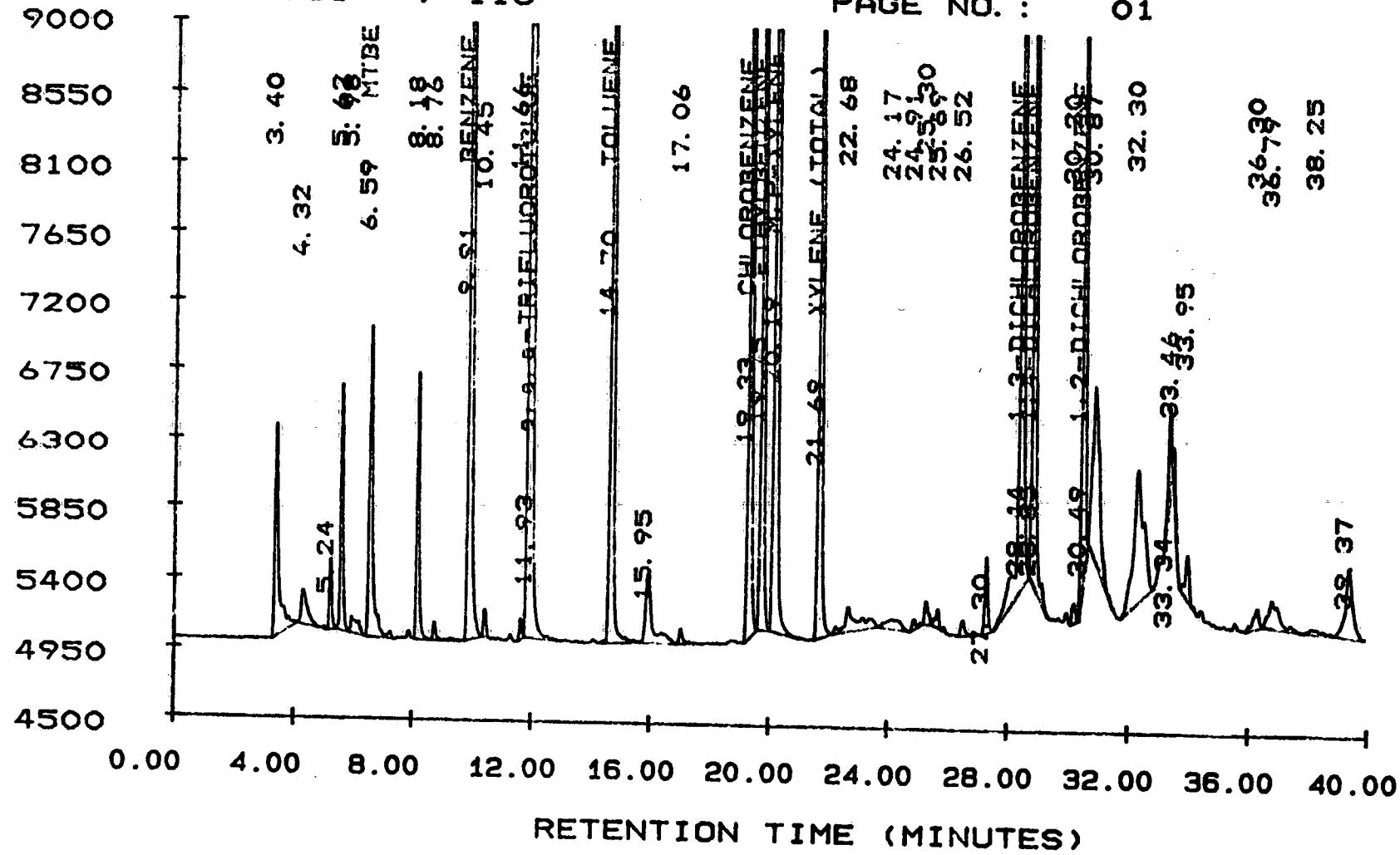
SAMPLE: 12309311 .22
 TEST :
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: GEORGE
 CLIENT ID:
 CLIENT:
 LAB ID: STD 8020
 SAMPLE WT : % MOISTURE :

INST:11 VIAL:FO SEQ NUMBER:022
 DATE-TIME INJECTED : 01/03/94 15:40:20
 DATE-TIME PROCESSED : 01/03/94 16:21:32
 SAMP RATE: 1.56
 SAMPLE VOL:
 COLUMN TYPE: 5000UL DB-624
 RAW FILE: RAW1:A3439674
 DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL MINUTES | RT GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|------------|---------|------------------------|-----------------|
| 001 | 9492 | 423 | V | 2.618 | | |
| 002 | 89070 | 8378 | V | 3.395 | | |
| 003 | 74623 | 3102 | V | 4.341 | | |
| 004 | 14414 | 2471 | V | 5.261 | | |
| 005 | 57661 | 8785 | V | 5.630 | | |
| 006 | 8894 | 698 | V | 6.103 | | |
| 007 | 146275 | 13993 | V | 6.608 | 1 MTBE | 2.057 |
| 008 | 8338 | 1284 | V | 7.926 | | |
| 009 | 89865 | 14221 | | 8.200 | | |
| 010 | 538004 | 88514 | V | 9.927 | 1 BENZENE | 2.638 |
| 011 | 8560 | 1304 | V | 10.458 | | |
| 012 | 7938 | 1441 | V | 11.673 | | |
| 013 | 1800663 | 258326 | V | 11.934 | 1 a,a,a-TRIFLUOROTOLUE | 28.177 |
| 014 | 19215 | 925 | V | 13.164 | | |
| 015 | 520986 | 78400 | V | 14.702 | 1 TOLUENE | 2.556 |
| 016 | 80457 | 5600 | V | 15.954 | | |
| 017 | 11268 | 786 | V | 17.061 | | |
| 018 | 496848 | 75979 | V | 19.319 | 1 CHLOROBENZENE | 2.526 |
| 019 | 440755 | 67564 | V | 19.737 | 1 ETHYLBENZENE | 2.571 |
| 020 | 1026168 | 147656 | V | 20.181 | 1 M,P-XYLENE | 5.036 |
| 021 | 453114 | 65329 | V | 21.686 | 1 XYLENE (TOTAL) | 2.597 |
| 022 | 10221 | 950 | V | 22.666 | | |
| 023 | 32204 | 1298 | V | 23.470 | | |
| 024 | 55117 | 1250 | V | 25.094 | | |
| 025 | 20397 | 1876 | V | 27.263 | | |
| 026 | 456260 | 63746 | V | 28.402 | 1 1,3-DICHLOROBENZENE | 2.467 |
| 027 | 414336 | 57062 | V | 28.813 | 1 1,4-DICHLOROBENZENE | 2.422 |
| 028 | 395466 | 50004 | V | 30.455 | 1 1,2-DICHLOROBENZENE | 2.420 |
| 029 | 41329 | 637 | V | 32.265 | | |
| 030 | 7077 | 874 | V | 33.367 | | |
| 031 | 61335 | 3906 | V | 33.890 | | |
| 032 | 35214 | 659 | V | 36.312 | | |
| 033 | 120615 | 1525 | V | 37.392 | | |
| 034 | 53574 | 2604 | | 38.346 | | |
| 035 | 41561 | 3664 | | 39.322 | | |

STD 8020

SAMPLE NO. : 12309311 . 34 DIL: 1. 0000 INSTRUMENT: 11
 TEST NO. :
 METHOD NO. : 11C / 11C DATE TIME: 01/04/94 22:38:34
 PAGE NO. : 01



Y MAXIMUM: 9000.
 Y MINIMUM: 4500.

START TIME: 0. 00
 END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .34

INST:11 VIAL:F0 SEQ NUMBER:034

TEST :

DATE-TIME INJECTED : 01/04/94 22:38:34

COLLECTION TIME : 39.90

DATE-TIME PROCESSED : 01/04/94 23:19:32

METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56

CLIENT ID:

SAMPLE VOL:

CLIENT:

COLUMN TYPE: 5000UL DB-624

LAB ID: STD 8020

RAW FILE: RAW1:A4440158

SAMPLE WT :

% MOISTURE :

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|----------------------|-----------------|
| 001 | 121383 | 13596 | V | 3.399 | | | |
| 002 | 31544 | 2199 | V | 4.317 | | | |
| 003 | 23617 | 4388 | V | 5.245 | | | |
| 004 | 87174 | 15620 | V | 5.616 | | | |
| 005 | 16908 | 1014 | V | 5.984 | | | |
| 006 | 163471 | 20014 | V | 6.594 | 1 | MTBE | 2.942 |
| 007 | 102454 | 17035 | V | 8.184 | | | |
| 008 | 10614 | 1160 | V | 8.755 | | | |
| 009 | 613134 | 99047 | V | 9.915 | 1 | BENZENE | 2.952 |
| 010 | 10803 | 1755 | V | 10.449 | | | |
| 011 | 7221 | 1314 | V | 11.657 | | | |
| 012 | 1508481 | 218459 | | 11.925 | 1 | a,a,a-TRIFLUOROTOLUE | 23.828 |
| 013 | 501558 | 78076 | V | 14.698 | 1 | TOLUENE | 2.546 |
| 014 | 67294 | 4397 | V | 15.949 | | | |
| 015 | 8380 | 919 | | 17.064 | | | |
| 016 | 455531 | 70503 | V | 19.334 | 1 | CHLOROBENZENE | 2.344 |
| 017 | 433494 | 65836 | V | 19.754 | 1 | ETHYLBENZENE | 2.506 |
| 018 | 1016374 | 148608 | V | 20.193 | 1 | M,P-XYLENE | 5.069 |
| 019 | 403286 | 60045 | V | 21.694 | 1 | XYLENE (TOTAL) | 2.387 |
| 020 | 47442 | 1539 | V | 22.682 | | | |
| 021 | 21241 | 600 | V | 24.167 | | | |
| 022 | 4970 | 566 | V | 24.908 | | | |
| 023 | 12043 | 1451 | V | 25.302 | | | |
| 024 | 12127 | 1242 | V | 25.689 | | | |
| 025 | 9457 | 1005 | V | 26.525 | | | |
| 026 | 32936 | 4757 | V | 27.302 | | | |
| 027 | 492335 | 60096 | V | 28.441 | 1 | 1,3-DICHLOROBENZENE | 2.326 |
| 028 | 378166 | 52560 | V | 28.850 | 1 | 1,4-DICHLOROBENZENE | 2.231 |
| 029 | 10130 | 1229 | V | 30.204 | | | |
| 030 | 282267 | 41691 | V | 30.493 | 1 | 1,2-DICHLOROBENZENE | 2.018 |
| 031 | 180368 | 11157 | V | 30.865 | | | |
| 032 | 185279 | 8463 | V | 32.305 | | | |
| 033 | 31102 | 5500 | V | 33.343 | | | |
| 034 | 12333 | 3147 | V | 33.464 | | | |
| 035 | 25870 | 2817 | V | 33.949 | | | |
| 036 | 17227 | 1241 | V | 36.302 | | | |
| 037 | 45197 | 1738 | V | 36.787 | | | |
| 038 | 9006 | 272 | V | 38.247 | | | |
| 039 | 74086 | 4354 | | 39.368 | | | |

STD 8020

SAMPLE NO. :

12309311 . 45 DIL: 1. 0000

TEST NO. :

METHOD NO. :

11C / 11C

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5850

5400

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0.00 4.00 8.00 12.00 16.00 20.00 24.00 28.00 32.00 36.00 40.00

RETENTION TIME (MINUTES)

Y MAXIMUM: 9000.

Y MINIMUM: 4500.

INSTRUMENT: 11

DATE TIME: 01/06/94 00:30:36

PAGE NO. :

01

36. 63

39. 30

32. 20

33. 31

33. 87

26. 43

28. 38

29. 43

30. 43

32. 20

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25. 07

25. 85

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EXTERNAL STANDARD

SAMPLE: 12309311 .45 INST:11 VIAL:FO SEQ NUMBER:045
TEST : DATE-TIME INJECTED : 01/06/94 00:30:36
COLLECTION TIME : 39.90 DATE-TIME PROCESSED : 01/06/94 01:11:17
METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56
CLIENT ID: SAMPLE VOL:
CLIENT: COLUMN TYPE: 5000UL DB-624
LAB ID: STD 8020 RAW FILE: RAW1:A6444160
SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|------|----------------------|-----------------------|
| 001 | 146783 | 16536 | V | 3.383 | | | |
| 002 | 31345 | 2279 | V | 4.298 | | | |
| 003 | 15189 | 2940 | V | 5.223 | | | |
| 004 | 61073 | 10105 | V | 5.593 | | | |
| 005 | 153156 | 18740 | V | 6.569 | 1 | MTBE | 2.754 |
| 006 | 87708 | 12648 | V | 8.157 | | | |
| 007 | 465910 | 75257 | V | 9.882 | 1 | BENZENE | 2.243 |
| 008 | 8286 | 1266 | V | 10.413 | | | |
| 009 | 6575 | 1193 | V | 11.620 | | | |
| 010 | 1521545 | 219632 | V | 11.886 | 1 | a,a,a-TRIFLUOROTOLUE | 23.956 |
| 011 | 430844 | 66134 | V | 14.656 | 1 | TOLUENE | 2.156 |
| 012 | 43986 | 4181 | V | 15.907 | | | |
| 013 | 17508 | 931 | V | 16.368 | | | |
| 014 | 422188 | 65550 | V | 19.281 | 1 | CHLOROBENZENE | 2.179 |
| 015 | 374848 | 57477 | V | 19.700 | 1 | ETHYLBENZENE | 2.187 |
| 016 | 864720 | 126176 | V | 20.145 | 1 | M,P-XYLENE | 4.304 |
| 017 | 372635 | 55494 | V | 21.651 | 1 | XYLENE (TOTAL) | 2.206 |
| 018 | 6820 | 682 | V | 22.641 | | | |
| 019 | 14155 | 341 | V | 23.419 | | | |
| 020 | 20059 | 903 | V | 25.067 | | | |
| 021 | 4756 | 440 | V | 25.845 | | | |
| 022 | 12914 | 267 | V | 26.626 | | | |
| 023 | 386312 | 53879 | V | 28.376 | 1 | 1,3-DICHLOROBENZENE | 2.085 |
| 024 | 339070 | 46780 | V | 28.787 | 1 | 1,4-DICHLOROBENZENE | 1.986 |
| 025 | 347833 | 40937 | V | 30.427 | 1 | 1,2-DICHLOROBENZENE | 1.982 |
| 026 | 24968 | 1021 | V | 32.204 | | | |
| 027 | 23305 | 1466 | V | 33.306 | | | |
| 028 | 41328 | 3168 | V | 33.869 | | | |
| 029 | 36269 | 449 | | 36.626 | | | |
| 030 | 38303 | 2388 | | 39.304 | | | |

8020 STD

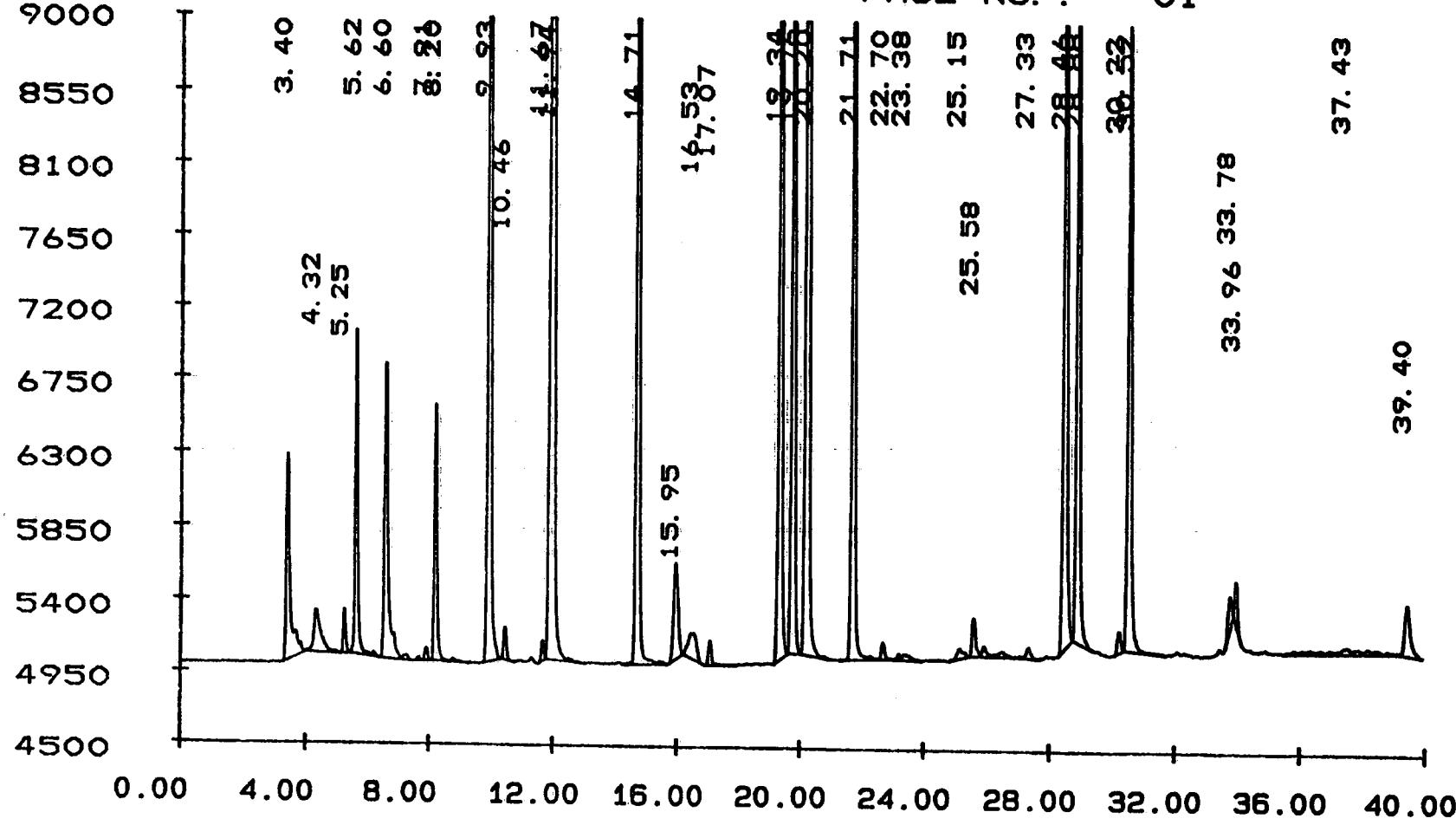
SAMPLE NO. : 12309311 . 56 DIL: 1. 0000 INSTRUMENT: 11

TEST NO. :

METHOD NO. : 11C / 11C

DATE TIME: 01/06/94 20:29:53

PAGE NO. : 01



RETENTION TIME (MINUTES)

Y MAXIMUM: 9000.

Y MINIMUM: 4500.

START TIME: 0. 00

END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .56
 TEST :
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: KIMO
 CLIENT ID:
 CLIENT:
 LAB ID: 8020 STD
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 1.0000

INST:11 VIAL:FO SEQ NUMBER:056
 DATE-TIME INJECTED : 01/06/94 20:29:53
 DATE-TIME PROCESSED : 01/06/94 21:10:34
 SAMP RATE: 1.56
 SAMPLE VOL:
 COLUMN TYPE: 5000UL DB-624
 RAW FILE: RAW1:A6444387

| PK NO | PEAK AREA | PEAK HEIGHT | BL RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|---------------|-------|----------------------|-----------------|
| 001 | 109969 | 12562 | V 3.400 | | | |
| 002 | 42074 | 2614 | V 4.318 | | | |
| 003 | 14180 | 2682 | V 5.251 | | | |
| 004 | 120168 | 19693 | V 5.622 | | | |
| 005 | 154024 | 17968 | V 6.603 | 1 | MTBE | 2.641 |
| 006 | 6339 | 805 | V 7.906 | | | |
| 007 | 94936 | 15552 | | 8.197 | | |
| 008 | 443458 | 71728 | V 9.930 | 1 | BENZENE | 2.138 |
| 009 | 12722 | 2007 | V 10.462 | | | |
| 010 | 6908 | 1285 | V 11.673 | | | |
| 011 | 1281265 | 187812 | 11.937 | 1 | a,a,a-TRIFLUOROTOLUE | 20.485 |
| 012 | 410010 | 63992 | V 14.711 | 1 | TOLUENE | 2.086 |
| 013 | 58604 | 5975 | V 15.951 | | | |
| 014 | 30677 | 1637 | V 16.534 | | | |
| 015 | 12482 | 1531 | V 17.069 | | | |
| 016 | 404566 | 62590 | V 19.335 | 1 | CHLOROBENZENE | 2.081 |
| 017 | 348532 | 53130 | V 19.756 | 1 | ETHYLBENZENE | 2.022 |
| 018 | 805267 | 118535 | V 20.201 | 1 | M,P-XYLENE | 4.043 |
| 019 | 349561 | 51885 | V 21.710 | 1 | XYLENE (TOTAL) | 2.063 |
| 020 | 7823 | 1029 | V 22.697 | | | |
| 021 | 9830 | 383 | V 23.376 | | | |
| 022 | 8968 | 613 | V 25.146 | | | |
| 023 | 32161 | 2348 | V 25.576 | | | |
| 024 | 8262 | 689 | V 27.327 | | | |
| 025 | 361909 | 50666 | V 28.463 | 1 | 1,3-DICHLOROBENZENE | 1.961 |
| 026 | 318042 | 44652 | V 28.877 | 1 | 1,4-DICHLOROBENZENE | 1.895 |
| 027 | 10214 | 1327 | V 30.218 | | | |
| 028 | 283941 | 38707 | 30.525 | 1 | 1,2-DICHLOROBENZENE | 1.874 |
| 029 | 15920 | 2014 | V 33.780 | | | |
| 030 | 16498 | 2693 | V 33.962 | | | |
| 031 | 37280 | 394 | V 37.425 | | | |
| 032 | 37419 | 3181 | 39.405 | | | |

- V. Raw Quality Control Data Package**
- A. Blank data**
 - 1. Results summary (Form 1)
 - 2. Chromatograms/quant reports - primary column
- B. Matrix spike data**
 - 1. Results summary
 - 2. Chromatograms - primary column
- C. Run Log Summary**

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

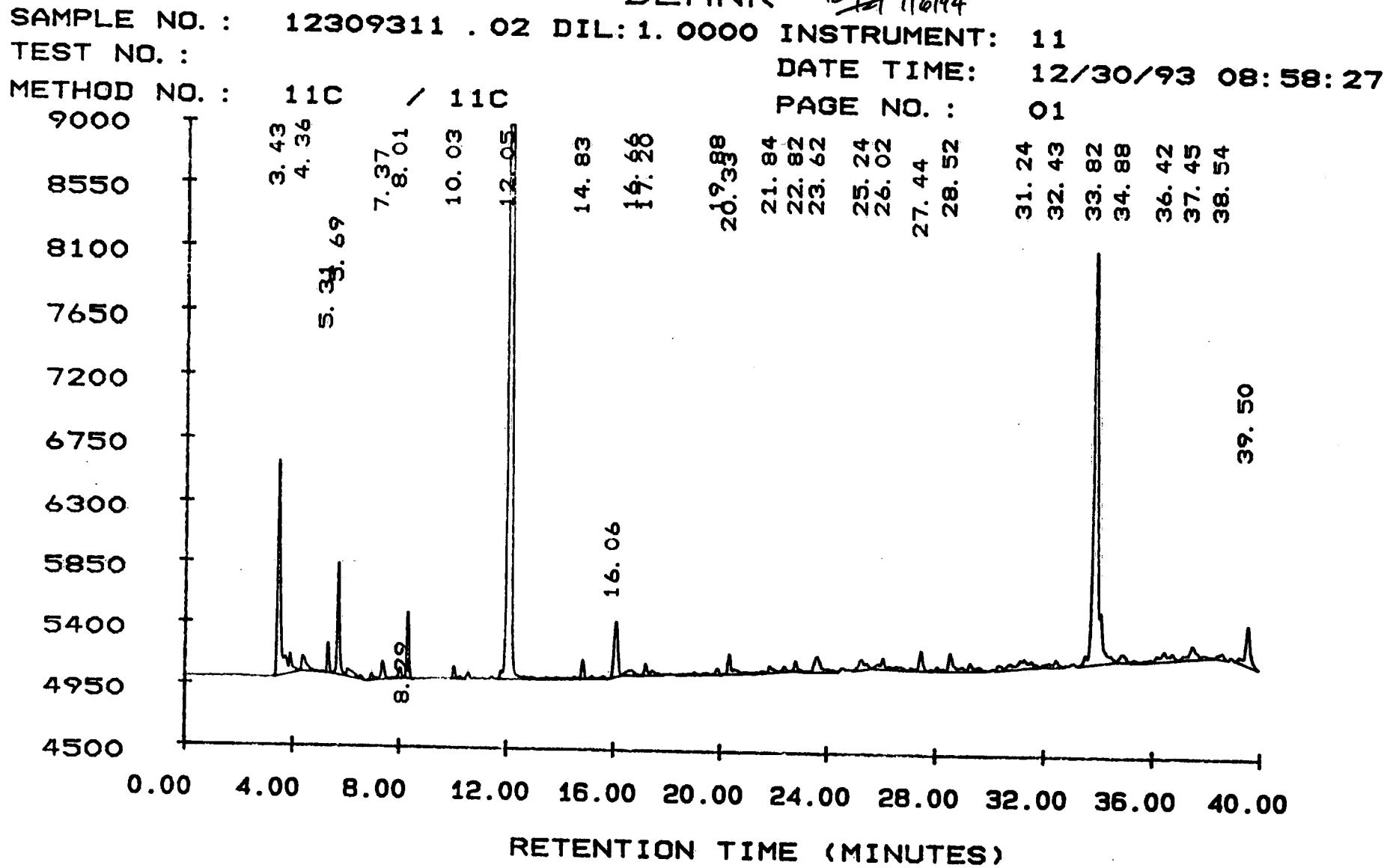
BLK

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 93GVD548-MB1Sample wt/vol: 5.0 (g/mL) MLLab File ID: LU338562Level: (low/med) LOWDate Received: 12/30/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 1.0CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| CAS NO. | COMPOUND | | |
|----------------|----------------|-----|---|
| 71-43-2----- | Benzene | 1.0 | U |
| 108-88-3----- | Toluene | 1.0 | U |
| 100-41-4----- | Ethylbenzene | 1.0 | U |
| 1330-20-7----- | Xylene (Total) | 2.0 | U |

12/88 Rev.

93GVD548-1B1

~~BLANK~~ *b121 1/6/94*

Y MAXIMUM: 9000.
 Y MINIMUM: 4500.

START TIME: 0.00
 END TIME: 40.00

12/30/93 09:39:07

EXTERNAL STANDARD

SAMPLE: 12309311 .02

TEST :

COLLECTION TIME : 39.90

METHOD: 11C / 11C REV #: 00119 ANALYST: KOUVAKAS SAMP RATE: 1.56

CLIENT ID:

CLIENT:

LAB ID: BLANK

SAMPLE WT :

% MOISTURE :

INST:11 VIAL:FO SEQ NUMBER:002

DATE-TIME INJECTED : 12/30/93 08:58:27

DATE-TIME PROCESSED : 12/30/93 09:39:07

SAMPLE VOL:

COLUMN TYPE: 5000UL DB-624

RAW FILE: RAW1:LU338562

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|---------------------|-----------------------|
| 001 | 130362 | 15680 | V | 3.432 | | | |
| 002 | 15232 | 1104 | V | 4.361 | | | |
| 003 | 11066 | 2147 | V | 5.309 | | | |
| 004 | 60878 | 8129 | V | 5.687 | | | |
| | | | | 6.653 | 1 | MTBE | |
| 005 | 16327 | 1325 | V | 7.368 | | | |
| 006 | 6192 | 773 | V | 8.014 | | | |
| 007 | 27248 | 4864 | | 8.290 | | | |
| 008 | 6567 | 889 | V | 10.033 | 1 | BENZENE | 0.026 |
| 009 | 1446803 | 217451 | V | 12.050 | 1 | a,a,a-TRIFLUOROTOLU | 23.718 |
| 010 | 21075 | 1323 | V | 14.834 | 1 | TOLUENE | 0.043 |
| 011 | 39312 | 4056 | V | 16.064 | | | |
| 012 | 7988 | 378 | V | 16.663 | | | |
| 013 | 11181 | 820 | V | 17.198 | | | |
| 014 | 9168 | 432 | V | 19.439 | 1 | CHLOROBENZENE | 0.016 |
| 015 | 16784 | 1416 | V | 19.883 | 1 | ETHYLBENZENE | 0.048 |
| 016 | 11314 | 446 | V | 20.327 | 1 | M,P-XYLENE | 0.018 |
| 017 | 6608 | 446 | V | 21.835 | 1 | XYLENE (TOTAL) | |
| 018 | 6608 | 740 | V | 22.820 | | | |
| 019 | 21910 | 1093 | V | 23.620 | | | |
| 020 | 13022 | 748 | V | 25.235 | | | |
| 021 | 16690 | 769 | V | 26.022 | | | |
| 022 | 15786 | 1432 | V | 27.437 | | | |
| 023 | 29385 | 1281 | V | 28.525 | 1 | 1,3-DICHLOROBENZENE | 0.050 |
| | | | | 28.962 | 1 | 1,4-DICHLOROBENZENE | |
| | | | | 30.603 | 1 | 1,2-DICHLOROBENZENE | |
| 024 | 29000 | 636 | V | 31.245 | | | |
| 025 | 9784 | 481 | V | 32.428 | | | |
| 026 | 355024 | 29601 | V | 33.825 | | | |
| 027 | 11351 | 565 | V | 34.875 | | | |
| 028 | 20231 | 656 | V | 36.417 | | | |
| 029 | 22403 | 940 | V | 37.453 | | | |
| 030 | 6102 | 433 | V | 38.538 | | | |
| | 36954 | 2980 | | 39.500 | | | |

*K. Kouvakas
115 Net*

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-14SMSClient: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-002 MSSample wt/vol: 5.0 (g/mL) MLLab File ID: LU338751Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 20.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

| | | | |
|----------------|----------------|-----|---|
| CAS NO. | COMPOUND | | |
| 71-43-2----- | Benzene | | S |
| 108-88-3----- | Toluene | | S |
| 100-41-4----- | Ethylbenzene | | S |
| 1330-20-7----- | Xylene (Total) | 300 | |

S: SPIKE COMPOUND

12/88 Rev.

9312L056-002S

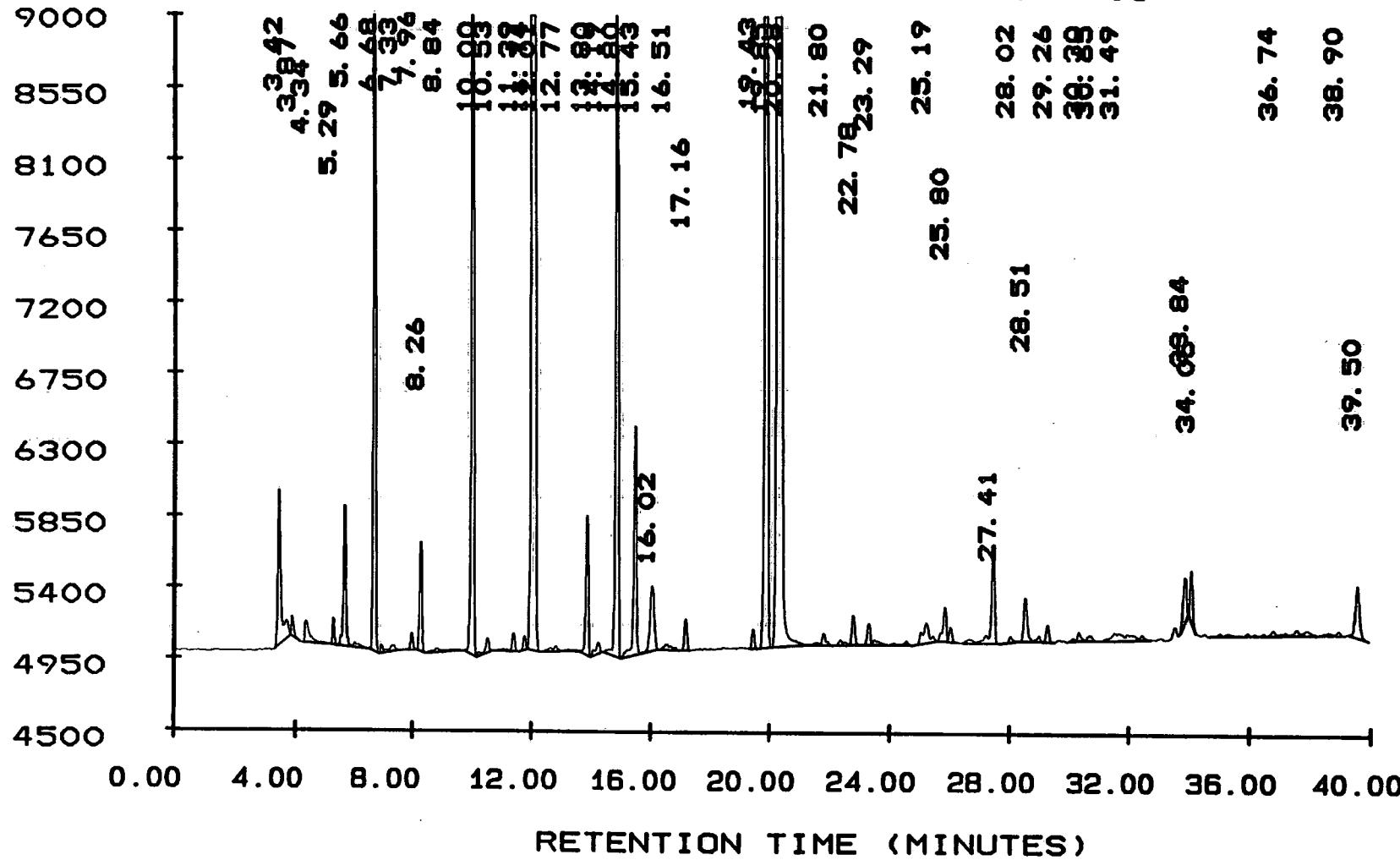
SAMPLE NO. : 12309311 . 14 DIL: 20. 000 INSTRUMENT: 11

TEST NO. :

DATE TIME: 12/30/93 22: 39: 38

METHOD NO. : 11C / 11C

PAGE NO. : 01

Y MAXIMUM: 9000.
Y MINIMUM: 4500.START TIME: 0. 00
END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .14
 TEST : 08020
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56
 CLIENT ID: MW-14S SAMPLE VOL:
 CLIENT: L.E. Carpenter COLUMN TYPE: 5000UL DB-624
 LAB ID: 9312L056-002MS RAW FILE: RAW1:LU338751
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 20.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|----------------------|-----------------|
| 001 | 74245 | 9759 | V | 3.419 | | | |
| 002 | 7072 | 1257 | V | 3.873 | | | |
| 003 | 17749 | 1395 | V | 4.341 | | | |
| 004 | 7744 | 1647 | V | 5.288 | | | |
| 005 | 55187 | 8802 | V | 5.664 | | | |
| 006 | 217382 | 44591 | V | 6.676 | 1 | MTBE | 131.073 |
| 007 | 9171 | 420 | V | 7.332 | | | |
| 008 | 7308 | 1076 | V | 7.956 | | | |
| 009 | 37926 | 6895 | V | 8.257 | | | |
| 010 | 8649 | 287 | V | 8.839 | | | |
| 011 | 302400 | 54099 | V | 10.000 | 1 | BENZENE | 32.248 1.612 |
| 012 | 9579 | 909 | V | 10.528 | | | |
| 013 | 9787 | 1146 | V | 11.391 | | | |
| 014 | 5094 | 885 | V | 11.743 | | | |
| 015 | 1175329 | 182827 | V | 12.014 | 1 | a,a,a-TRIFLUOROTOLUE | 398.833 19.94 |
| 016 | 8657 | 368 | V | 12.775 | | | |
| 017 | 50811 | 8751 | V | 13.795 | | | |
| 018 | 7758 | 715 | V | 14.185 | | | |
| 019 | 282206 | 47128 | V | 14.796 | 1 | TOLUENE | 30.732 1.536 |
| 020 | 89851 | 14286 | V | 15.428 | | | |
| 021 | 40709 | 4102 | V | 16.022 | | | |
| 022 | 7659 | 383 | V | 16.515 | | | |
| 023 | 12651 | 1983 | V | 17.156 | | | |
| 024 | 7750 | 1230 | V | 19.433 | 1 | CHLOROBENZENE | 0.818 |
| 025 | 780870 | 122859 | V | 19.848 | 1 | ETHYLBENZENE | 93.517 4.67 |
| 026 | 2913947 | 433977 | V | 20.282 | 1 | M,P-XYLENE | 296.050 |
| 027 | 9132 | 759 | V | 21.804 | 1 | XYLENE (TOTAL) | 0.603 → 296.05 |
| 028 | 17321 | 1877 | V | 22.780 | | | |
| 029 | 18479 | 1349 | V | 23.289 | | | |
| 030 | 20269 | 1241 | V | 25.193 | | | |
| 031 | 23499 | 2160 | V | 25.798 | | | |
| 032 | 52085 | 5841 | V | 27.414 | | | |
| 033 | 4649 | 383 | V | 28.019 | | | |
| 034 | 25657 | 2738 | V | 28.508 | 1 | 1,3-DICHLOROBENZENE | 2.119 |
| 035 | 7587 | 1063 | V | 29.265 | 1 | 1,4-DICHLOROBENZENE | 0.903 |
| 036 | 6477 | 566 | V | 30.297 | | | |
| 037 | 4219 | 326 | V | 30.651 | 1 | 1,2-DICHLOROBENZENE | 0.316 |
| 038 | 25780 | 504 | V | 31.489 | | | |
| 039 | 22832 | 2828 | V | 33.844 | | | |
| 040 | 19137 | 3238 | V | 34.053 | | | |

(Signature)
 1-10-94

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-14SMSREClient: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-002 MSSample wt/vol: 5.0 (g/mL) MLLab File ID: A6444306Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 01/06/94Column: (pack/cap) CAPDilution Factor: 20.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | | |
|-------------------------------------|-----|---|
| <u>71-43-2-----Benzene</u> | | S |
| <u>108-88-3-----Toluene</u> | | S |
| <u>100-41-4-----Ethylbenzene</u> | | S |
| <u>1330-20-7-----Xylene (Total)</u> | 470 | |

S: SPIKE COMPOUND

12/88 Rev.

9312L056-002SRI

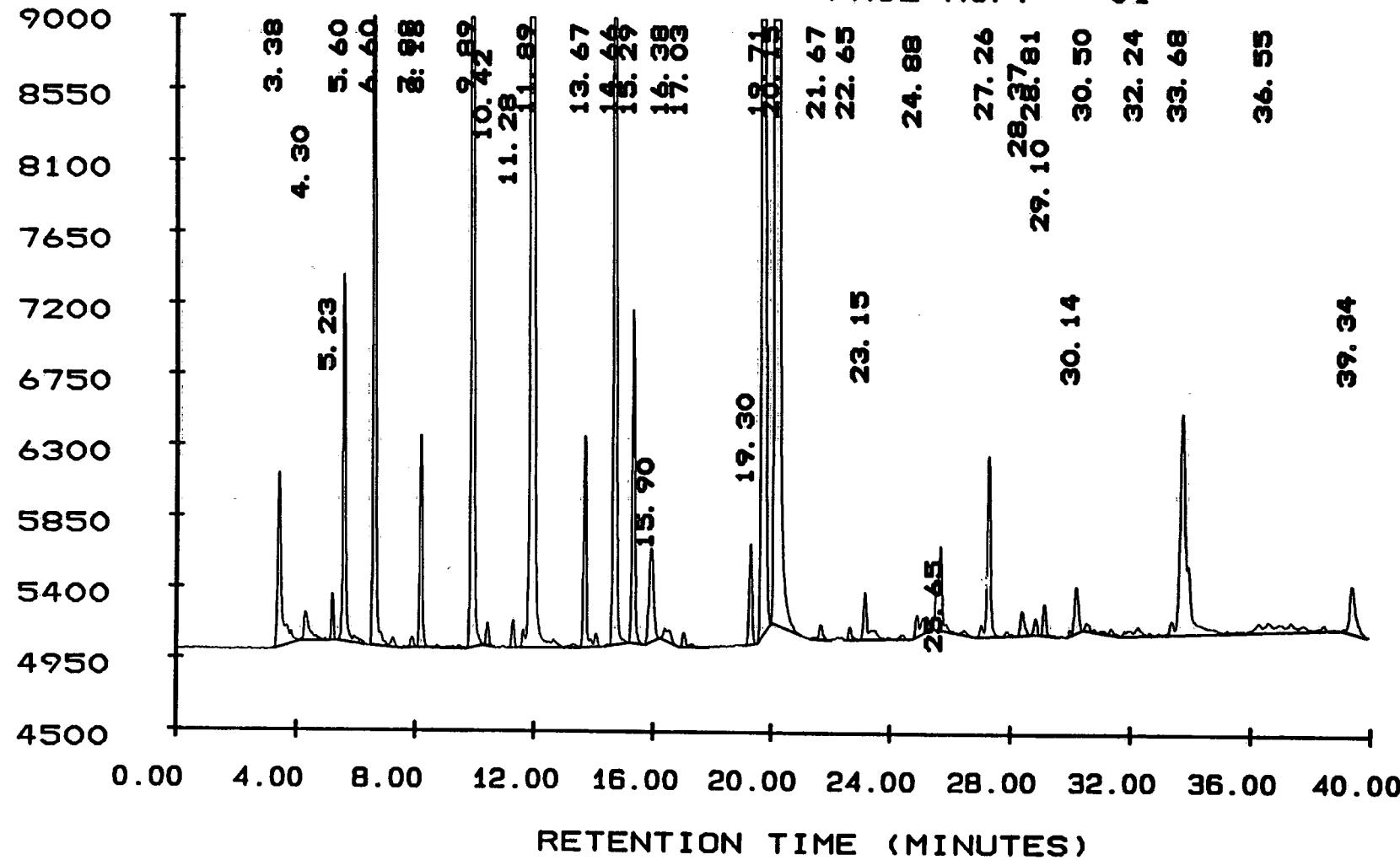
SAMPLE NO. : 12309311 . 51 DIL: 20. 000 INSTRUMENT: 11

TEST NO. :

METHOD NO. : 11C / 11C

DATE TIME: 01/06/94 14:59:09

PAGE NO. : 01



Y MAXIMUM: 9000.
Y MINIMUM: 4500.

START TIME: 0. 00
END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .51
 TEST : 08020S
 COLLECTION TIME : 39.90
 METHOD: 11C / 11C REV #: 00119 ANALYST: KOUVAKAS SAMP RATE: 1.56
 CLIENT ID: MW-14S SAMPLE VOL:
 CLIENT: L.E. Carpenter COLUMN TYPE: 5000UL DB-624
 LAB ID: 9312L056-002MS RI RAW FILE: RAW1:A6444306
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 20.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC | PPB |
|-------|-----------|-------------|----|------------|------|----------------------|-------------|--------|
| 001 | 101546 | 11025 | V | 3.378 | | | | |
| 002 | 27718 | 1837 | V | 4.300 | | | | |
| 003 | 14717 | 2923 | V | 5.228 | | | | |
| 004 | 139360 | 22951 | V | 5.598 | | | | |
| 005 | 317728 | 57950 | V | 6.599 | 1 | MTBE | 170.342 | |
| 006 | 5823 | 677 | V | 7.879 | | | | |
| 007 | 86599 | 13433 | V | 8.165 | | | | |
| 008 | 435393 | 71574 | V | 9.891 | 1 | BENZENE | 42.664 | 2.1322 |
| 009 | 10135 | 1469 | V | 10.422 | | | | |
| 010 | 10710 | 1749 | V | 11.277 | | | | |
| 011 | 1370293 | 194390 | V | 11.893 | 1 | a,a,a-TRIFLUOROTOLUE | 424.059 | 21.30 |
| 012 | 89440 | 13304 | V | 13.672 | | | | |
| 013 | 422874 | 66957 | V | 14.664 | 1 | TOLUENE | 43.663 | 2.183 |
| 014 | 126870 | 20877 | V | 15.292 | | | | |
| 015 | 63387 | 5949 | V | 15.904 | | | | |
| 016 | 14104 | 713 | V | 16.380 | | | | |
| 017 | 9622 | 894 | V | 17.031 | | | | |
| 018 | 40992 | 6364 | V | 19.297 | 1 | CHLOROBENZENE | 4.232 | |
| 019 | 1247509 | 186658 | V | 19.712 | 1 | ETHYL BENZENE | 142.078 | 2.45 |
| 020 | 4699571 | 681994 | V | 20.148 | 1 | M,P-XYLENE | 465.243 | 2.65.2 |
| 021 | 9537 | 953 | V | 21.670 | 1 | XYLENE (TOTAL) | 0.758 | |
| 022 | 6908 | 808 | V | 22.653 | | | | |
| 023 | 38168 | 2971 | V | 23.151 | | | | |
| 024 | 22560 | 1356 | V | 24.875 | | | | |
| 025 | 67068 | 5315 | V | 25.652 | | | | |
| 026 | 91040 | 11407 | V | 27.257 | | | | |
| 027 | 14568 | 1530 | V | 28.368 | 1 | 1,3-DICHLOROBENZENE | 1.184 | |
| 028 | 7734 | 1039 | V | 28.807 | | | | |
| 029 | 15680 | 2001 | V | 29.102 | 1 | 1,4-DICHLOROBENZENE | 1.699 | |
| 030 | 29709 | 2975 | V | 30.137 | | | | |
| 031 | 14352 | 479 | V | 30.499 | 1 | 1,2-DICHLOROBENZENE | 0.464 | |
| 032 | 16810 | 580 | V | 32.243 | | | | |
| 033 | 225376 | 13978 | V | 33.682 | | | | |
| 034 | 53747 | 628 | V | 36.552 | | | | |
| 035 | 41533 | 2973 | | 39.335 | | | | |

Johnston
1-10-94

SAMPLE: 12309311 .14

PAGE NUMBER: 2

DATE-TIME INJECTED : 12/30/93 22:39:38

DATE-TIME PROCESSED : 12/30/93 23:20:21

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|-------------------|-----------------------|
| 041 | 27149 | 357 | V | 36.737 | | | |
| 042 | 5586 | 262 | V | 38.900 | | | |
| 043 | 30057 | 3220 | | 39.500 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0MW-14SMSDClient: L.E. CarpenterMatrix: WATERLab Sample ID: 9312L056-002 MSDSample wt/vol: 5.0 (g/mL) MLLab File ID: LU338766Level: (low/med) LOWDate Received: 12/20/93% Moisture: not dec. Date Analyzed: 12/30/93Column: (pack/cap) CAPDilution Factor: 20.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:

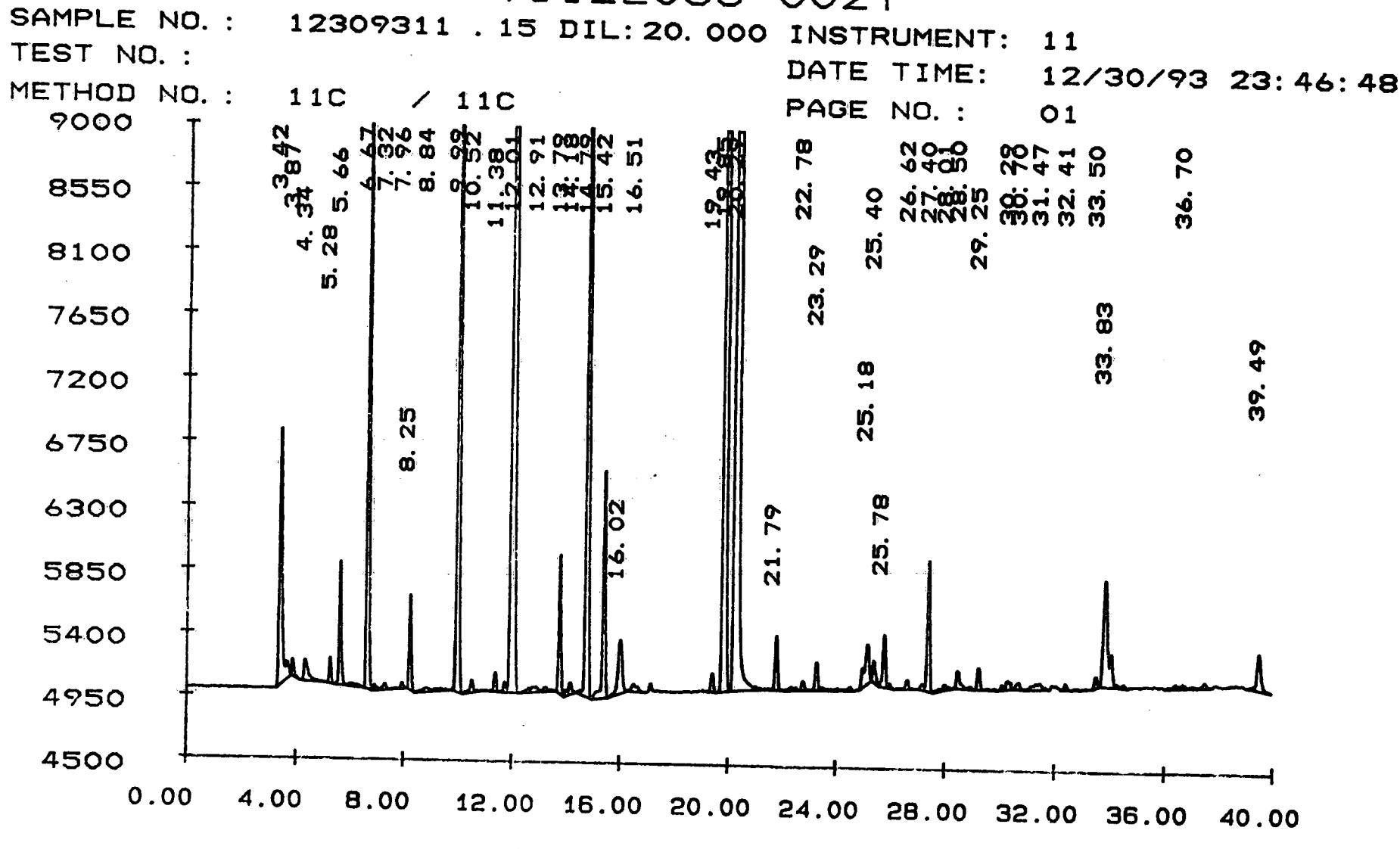
(ug/L or ug/Kg) ug/L

| | | |
|------------------------------|-----|---|
| 71-43-2-----Benzene | | S |
| 108-88-3-----Toluene | | S |
| 100-41-4-----Ethylbenzene | | S |
| 1330-20-7-----Xylene (Total) | 380 | S |

S: SPIKE COMPOUND

12/88 Rev.

9312L056-002T



Y MAXIMUM: 9000.
Y MINIMUM: 4500.

START TIME: 0.00
END TIME: 40.00

EXTERNAL STANDARD

SAMPLE: 12309311 .15 INST:11 VIAL:FO SEQ NUMBER:015
 TEST : 08020 DATE-TIME INJECTED : 12/30/93 23:46:48
 COLLECTION TIME : 39.90 DATE-TIME PROCESSED : 12/31/93 00:27:31
 METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56
 CLIENT ID: MW-14S SAMPLE VOL:
 CLIENT: L.E. Carpenter COLUMN TYPE: 5000UL DB-624
 LAB ID: 9312L056-002MSD RAW FILE: RAW1:LU338766
 SAMPLE WT : % MOISTURE : DILUTION FACTOR : 20.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|---------------|--------|------------------------|-----------------|
| 001 | 128547 | 18035 | V | 3.422 | | |
| 002 | 7325 | 1260 | V | 3.873 | | |
| 003 | 17764 | 1564 | V | 4.338 | | |
| 004 | 9213 | 1830 | V | 5.285 | | |
| 005 | 52655 | 8625 | V | 5.660 | | |
| 006 | 246049 | 51263 | V | 6.673 | 1 MTBE | 150.685 |
| 007 | 8105 | 444 | V | 7.317 | | |
| 008 | 3950 | 431 | V | 7.956 | | |
| 009 | 36923 | 6796 | V | 8.250 | | |
| 010 | 11559 | 323 | V | 8.843 | | |
| 011 | 351638 | 63138 | V | 9.992 | 1 BENZENE | 37.636 1.88 |
| 012 | 8524 | 856 | V | 10.523 | | |
| 013 | 9964 | 1380 | V | 11.382 | | |
| 014 | 1360549 | 207932 | V | 12.005 | 1 a,a,a-TRIFLUOROTOLUE | 453.600 22.65 |
| 015 | 14851 | 426 | V | 12.913 | | |
| 016 | 55094 | 9794 | V | 13.793 | | |
| 017 | 8886 | 821 | V | 14.180 | | |
| 018 | 369696 | 62246 | V | 14.792 | 1 TOLUENE | 40.591 2.029 |
| 019 | 100350 | 15961 | V | 15.424 | | |
| 020 | 40826 | 3846 | V | 16.024 | | |
| 021 | 8644 | 534 | V | 16.512 | | |
| 022 | 8513 | 1355 | V | 19.426 | 1 CHLOROBENZENE | 0.901 |
| 023 | 978156 | 152097 | V | 19.848 | 1 ETHYLBENZENE | 115.771 29.71 |
| 024 | 3721821 | 555753 | V | 20.287 | 1 M,P-XYLENE | 379.124 |
| 025 | 25254 | 3856 | V | 21.794 | 1 XYLENE (TOTAL) | 3.066 |
| 026 | 9402 | 653 | V | 22.780 | | |
| 027 | 21918 | 2012 | V | 23.289 | | |
| 028 | 32962 | 2825 | V | 25.176 | | |
| 029 | 11619 | 1600 | V | 25.396 | | |
| 030 | 27123 | 3769 | V | 25.784 | | |
| 031 | 6727 | 675 | V | 26.622 | | |
| 032 | 64702 | 9286 | V | 27.402 | | |
| 033 | 6192 | 391 | V | 28.011 | | |
| 034 | 13408 | 1249 | V | 28.498 | 1 1,3-DICHLOROBENZENE | 0.967 |
| 035 | 12905 | 1583 | V | 29.251 | 1 1,4-DICHLOROBENZENE | 1.344 |
| 036 | 9548 | 621 | V | 30.289 | | |
| 037 | 5025 | 480 | V | 30.699 | 1 1,2-DICHLOROBENZENE | 0.464 |
| 038 | 12071 | 471 | V | 31.470 | | |
| 039 | 4019 | 444 | V | 32.406 | | |
| 040 | 5965 | 849 | V | 33.502 | | |

12/31/93 00:27:31
 15K4

SAMPLE: 12309311 .15
DATE-TIME INJECTED : 12/30/93 23:46:48
DATE-TIME PROCESSED : 12/31/93 00:27:31

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|-------------------|-----------------------|
| 041 | 95283 | 7527 | V | 33.829 | | | |
| 042 | 13519 | 299 | | 36.695 | | | |
| 043 | 27579 | 2620 | | 39.488 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

BLKMS

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 93GVD548-MB1 BSSample wt/vol: 5.0 (g/mL) MLLab File ID: A5444089Level: (low/med) LOWDate Received: 12/30/93

% Moisture: not dec.

Date Analyzed: 01/05/94Column: (pack/cap) CAPDilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

| | | |
|-------------------------------------|-----|---|
| <u>71-43-2-----Benzene</u> | | S |
| <u>108-88-3-----Toluene</u> | | S |
| <u>100-41-4-----Ethylbenzene</u> | | S |
| <u>1330-20-7-----Xylene (Total)</u> | 2.0 | U |

S: SPIKE COMPOUND

12/88 Rev.

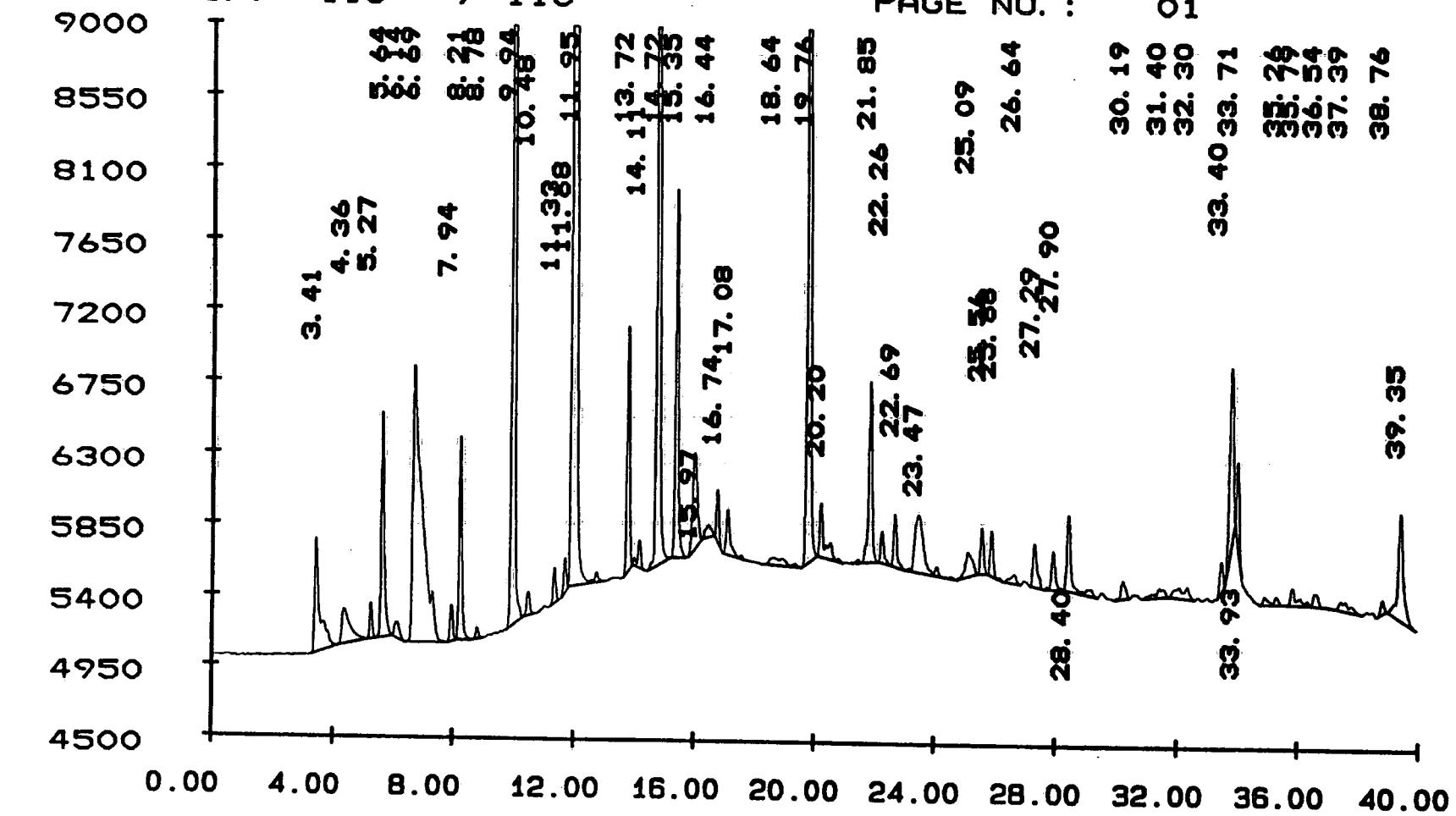
936VD 548-MBIS

~~SP BLANK~~

SAMPLE NO. : 12309311 . 39 DIL: 1. 0000 INSTRUMENT: 11

TEST NO. :

METHOD NO. : 11C / 11C DATE TIME: 01/05/94 18:05:10



Y MAXIMUM: 9000.

Y MINIMUM: 4500.

START TIME: 0. 00

END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .39

INST:11 VIAL:F0 SEQ NUMBER:039

TEST :

DATE-TIME INJECTED : 01/05/94 18:05:10

COLLECTION TIME : 39.90

DATE-TIME PROCESSED : 01/05/94 18:45:37

METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56

CLIENT ID:

SAMPLE VOL:

CLIENT:

COLUMN TYPE: 5000UL DB-624

LAB ID: SP BLANK

RAW FILE: RAW1:A5444089

SAMPLE WT :

% MOISTURE :

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|----------------------|------------------|
| 001 | 89971 | 7298 | V | 3.408 | | | |
| 002 | 45700 | 2262 | V | 4.364 | | | |
| 003 | 12894 | 2238 | V | 5.273 | | | |
| 004 | 96323 | 14067 | V | 5.642 | | | |
| 005 | 12853 | 1074 | V | 6.140 | | | |
| 006 | 376192 | 17460 | V | 6.687 | 1 | MTBE | 2.566 |
| 007 | 15038 | 2270 | V | 7.938 | | | |
| 008 | 81122 | 12773 | V | 8.212 | | | |
| 009 | 4562 | 704 | V | 8.785 | | | |
| 010 | 506829 | 82790 | V | 9.941 | 1 | BENZENE | 2.468 |
| 011 | 10239 | 1454 | V | 10.475 | | | |
| 012 | 14186 | 2231 | V | 11.331 | | | |
| 013 | 12227 | 2114 | V | 11.682 | | | |
| 014 | 1567855 | 226349 | V | 11.947 | 1 | a.a.a-TRIFLUOROTOLUE | 24.689 |
| 015 | 91034 | 15304 | V | 13.723 | | | |
| 016 | 14159 | 1753 | V | 14.114 | | | |
| 017 | 500913 | 76676 | V | 14.720 | 1 | TOLUENE | 2.500 |
| 018 | 150106 | 23069 | V | 15.351 | | | |
| 019 | 66300 | 6062 | V | 15.971 | | | |
| 020 | 10694 | 758 | V | 16.440 | | | |
| 021 | 19878 | 3320 | V | 16.743 | | | |
| 022 | 26888 | 2747 | V | 17.080 | | | |
| 023 | 19787 | 496 | V | 18.637 | | | |
| 024 | 428452 | 63245 | V | 19.439 | 1 | CHLOROBENZENE | 2.407 |
| 025 | 38359 | 3375 | V | 19.757 | 1 | ETHYLBENZENE | 0.115 |
| 026 | 88793 | 11308 | V | 20.201 | 1 | M,P-XYLENE | 0.450 |
| 027 | 15288 | 11308 | V | 21.851 | 1 | XYLENE (TOTAL) | |
| 028 | 25917 | 1965 | V | 22.264 | | | |
| 029 | 25917 | 3235 | V | 22.689 | | | |
| 030 | 76110 | 3618 | V | 23.466 | | | |
| 031 | 26448 | 1564 | V | 25.094 | | | |
| 032 | 21585 | 1564 | V | 25.561 | | | |
| 033 | 21575 | 2882 | V | 25.878 | | | |
| 034 | 8437 | 2859 | V | 26.639 | | | |
| 035 | 26325 | 585 | V | 27.290 | | | |
| 036 | 22718 | 2723 | V | 27.898 | | | |
| 037 | 50324 | 2435 | V | 28.395 | 1 | 1,3-DICHLOROBENZENE | 0.185 |
| 038 | 12684 | 4770 | V | 28.962 | 1 | 1,4-DICHLOROBENZENE | 0.055 |
| | | 571 | V | 30.186 | 1 | 1,2-DICHLOROBENZENE | |

W. Manzano
1/6/94

SAMPLE: 12309311 .39
DATE-TIME INJECTED : 01/05/94 18:05:10
DATE-TIME PROCESSED : 01/05/94 18:45:37

PAGE NUMBER: 2

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|-------|-----------|-------------|----|------------|------|----------------|-----------------|
| 039 | 20950 | 760 | V | 32.298 | | | |
| 040 | 14594 | 1925 | V | 33.405 | | | |
| 041 | 99638 | 11528 | V | 33.714 | | | |
| 042 | 30590 | 5236 | V | 33.925 | | | |
| 043 | 11645 | 509 | V | 35.255 | | | |
| 044 | 16568 | 1095 | V | 35.791 | | | |
| 045 | 11056 | 829 | V | 36.544 | | | |
| 046 | 16565 | 578 | V | 37.387 | | | |
| 047 | 6777 | 852 | V | 38.763 | | | |
| 048 | 82152 | 6665 | | 39.353 | | | |

GC VOLATILES SHEET

CLIENT SAMPLE NO.

Lab Name: Roy F. Weston, Inc. Work Order: 06720-013-001-0

BLKMSD

Client: L.E. CarpenterMatrix: WATERLab Sample ID: 93GVD548-MB1 BSDSample wt/vol: 5.0 (g/mL) MLLab File ID: A5444103Level: (low/med) LOWDate Received: 12/30/93% Moisture: not dec. Date Analyzed: 01/05/94Column: (pack/cap) CAPDilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

| | | |
|-------------------------------------|-----|---|
| <u>71-43-2-----Benzene</u> | | S |
| <u>108-88-3-----Toluene</u> | | S |
| <u>100-41-4-----Ethylbenzene</u> | | S |
| <u>1330-20-7-----Xylene (Total)</u> | 2.0 | U |

S: SPIKE COMPOUND

12/88 Rev.

SAMPLE NO. :

12309311 . 40

TEST NO. :

METHOD NO. :

9000

11C 11C

8550

8100

7650

7200

6750

6300

5850

5400

4950

4500

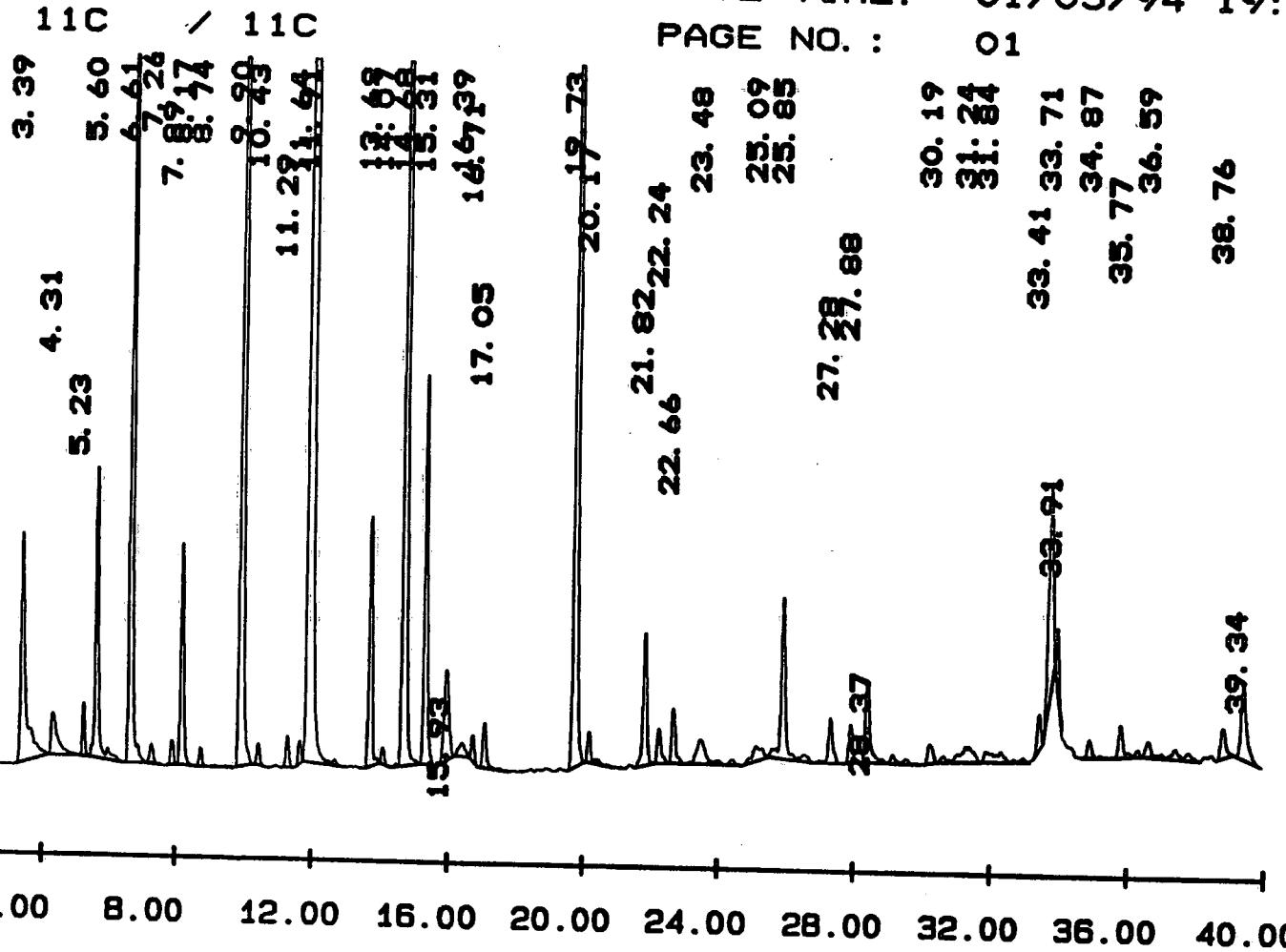
936 VD 548-MBIT

~~SP BLANK DUP~~ 10/15/94

DIL: 1. 0000 INSTRUMENT: 11

DATE TIME: 01/05/94 19:09:45

PAGE NO.: 01



RETENTION TIME (MINUTES)

Y MAXIMUM: 9000.

Y MINIMUM: 4500.

START TIME: 0. 00

END TIME: 40. 00

EXTERNAL STANDARD

SAMPLE: 12309311 .40

INST:11 VIAL:F0 SEQ NUMBER:040

TEST :

DATE-TIME INJECTED : 01/05/94 19:09:45

COLLECTION TIME : 39.90

DATE-TIME PROCESSED : 01/05/94 19:50:25

METHOD: 11C / 11C REV #: 00119 ANALYST: MANZANO SAMP RATE: 1.56

CLIENT ID:

SAMPLE VOL:

CLIENT:

COLUMN TYPE: 5000UL DB-624

LAB ID: SP BLANK DUP

RAW FILE: RAW1:A5444103

SAMPLE WT :

% MOISTURE :

DILUTION FACTOR : 1.0000

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|----------------------|-----------------------|
| 001 | 128530 | 12977 | V | 3.388 | | | |
| 002 | 33975 | 2338 | V | 4.307 | | | |
| 003 | 14902 | 2930 | V | 5.234 | | | |
| 004 | 105561 | 16296 | V | 5.605 | | | |
| 005 | 340946 | 63524 | V | 6.607 | 1 | MTBE | 9.336 |
| 006 | 9234 | 1112 | V | 7.263 | | | |
| 007 | 9242 | 1406 | V | 7.885 | | | |
| 008 | 76462 | 12469 | V | 8.174 | | | |
| 009 | 8907 | 1055 | V | 8.745 | | | |
| 010 | 471400 | 76869 | V | 9.902 | 1 | BENZENE | 2.291 |
| 011 | 7853 | 1207 | V | 10.433 | | | |
| 012 | 11300 | 1796 | V | 11.288 | | | |
| 013 | 7350 | 1328 | V | 11.641 | | | |
| 014 | 1524187 | 220445 | V | 11.908 | 1 | a.a.a-TRIFLUOROTOLUE | 24.045 |
| 015 | 88164 | 14181 | V | 13.686 | | | |
| 016 | 5847 | 927 | V | 14.072 | | | |
| 017 | 442966 | 69006 | V | 14.679 | 1 | TOLUENE | 2.250 |
| 018 | 140002 | 22075 | V | 15.306 | | | |
| 019 | 53285 | 5150 | V | 15.926 | | | |
| 020 | 10311 | 795 | V | 16.391 | | | |
| 021 | 8149 | 1473 | V | 16.708 | | | |
| 022 | 19768 | 2485 | | 17.046 | | | |
| 023 | 400890 | 60606 | V | 19.727 | 1 | CHLOROBENZENE | |
| 024 | 15670 | 1713 | V | 20.170 | 1 | ETHYLBENZENE | 2.307 |
| 025 | 55537 | 7495 | V | 21.822 | 1 | M,P-XYLENE | 0.058 |
| 026 | 15517 | 1900 | V | 22.238 | | XYLENE (TOTAL) | 0.298 |
| 027 | 24531 | 3074 | V | 22.662 | | | |
| 028 | 32979 | 1369 | V | 23.482 | | | |
| 029 | 17172 | 849 | V | 25.089 | | | |
| 030 | 87507 | 9033 | V | 25.851 | | | |
| 031 | 24914 | 2506 | V | 27.279 | | | |
| 032 | 18754 | 2154 | V | 27.878 | | | |
| 033 | 53068 | 4641 | V | 28.371 | 1 | 1,3-DICHLOROBENZENE | 0.180 |
| | | | | 28.962 | 1 | 1,4-DICHLOROBENZENE | |
| 034 | 11602 | 1062 | V | 30.188 | 1 | 1,2-DICHLOROBENZENE | 0.051 |
| 035 | 29293 | 884 | V | 31.239 | | | |
| 036 | 24190 | 601 | V | 31.837 | | | |
| 037 | 13928 | 1964 | V | 33.414 | | | |
| 038 | 100384 | 11811 | V | 33.714 | | | |

R. C. Green
01/05/94 80

SAMPLE: 12309311 .40

PAGE NUMBER: 2

DATE-TIME INJECTED : 01/05/94 19:09:45

DATE-TIME PROCESSED : 01/05/94 19:50:25

| PK NO | PEAK AREA | PEAK HEIGHT | BL | RT MINUTES | GR # | COMPONENT NAME | HEIGHT CONC PPB |
|----------|--------------|----------------|----|---------------|---------|-------------------|-----------------------|
| 039 | 18524 | 3489 | V | 33.914 | | | |
| 040 | 11190 | 1002 | V | 34.870 | | | |
| 041 | 20920 | 1809 | V | 35.766 | | | |
| 042 | 27616 | 872 | V | 36.586 | | | |
| 043 | 17456 | 1692 | V | 38.756 | | | |
| 044 | 47908 | 4242 | | 39.341 | | | |

Weston-Gulf Coast Laboratories, Inc.
GC VOA Analysis Log
Tracor 565 PID Detector (Purge & Trap): Instrument 11

| Analyst: | Shirley W. | | Date: | 12-30-93 |
|----------------|--------------------|------|--------------|---------------------|
| Queue: | 12309311 | | Method: | IIC |
| Temp. Program: | Sine | | Column: | DB424 |
| REP # | Sample Description | D.F. | Final Volume | Injection Date/Time |
| 01 | Standard 1232-54C | | 3uL / 5mL | 12-30-93 1729 |
| 02 | Blank | | 3uL / 5mL | 1728 |
| 03 | 9312L056-001 | | 5mL neat | 1724 |
| 04 | -002 | | | 172 |
| 05 | -003 | | | 172 |
| 06 | -005 | 10 | 500uL / 5mL | 1725 |
| 07 | -004 | | 5mL neat | 1723 |
| 08 | Blank | | 3uL / 5mL | 1722 |
| 09 | 9312L056-005 | | 5mL neat | 1722 |
| 10 | -002 | 20 | 250uL / 5mL | 1810 |
| 11 | -003 | 20 | | 1917 |
| 12 | -004 | 20 | | 2025 |
| 13 | Standard | | 3uL / 5mL | 2133 |
| 14 | 9312L056-002S | | 5mL neat | 2234 |
| 15 | -CO2T | | | 2346 |
| 16 | SP Blank | | 3uL / 5mL | 12-31-93 0053 |
| 17 | SP Blank Dup | | | 1201 |
| 18 | 9312G330-005 | 20 | 250uL / 5mL | 1307 |
| 19 | Blank | | 3uL / 5mL | 1414 |
| 20 | Standard | | 3uL / 5mL | 12-31-93 0521 |
| 21 | | | | 1410 |
| 22 | | | | 1540 |
| 23 | Standard | | 3uL / 5mL | 14-94 0924 |
| 24 | Blank | | | 14-94 1524 |

Reviewed: Kimberly C. Mann

Date: 1-7-94

82

Weston-Gulf Coast Laboratories, Inc.
GC VOA Analysis Log
Tracor 565 PID Detector (Purge & Trap): Instrument 11

| Analyst: | Sumner | | | Date: | 1-4-94 |
|----------------|--------------------|------|--------------|-----------------------------|----------|
| Queue: | 12309311 | | | Column: | DB124 |
| Temp. Program: | Sum | | | | |
| REP # | Sample Description | D.F. | Final Volume | Injection Date/Time | Comments |
| 25 | 94016498-001 | | 5ml neat | 11/4/94 1155 | |
| 26 | ↓ -002 | | ↓ | 1258 | |
| 27 | Blank 00F | 10 | 500ul/5ml | 11/4/94 1500 | |
| 28 | 94016498-001 | 10 | 500ul/5ml | 1500 | |
| 29 | 94016498-001 | 1 | 5ml neat | 1603 | |
| 30 | -002 | 1 | ↓ | 1718 | |
| 30 | -003 | 1 | ↓ | 1822 | |
| 31 | -004 | 100 | 50ul/5ml | 1927 | |
| 32 | -005 | 1 | 5ml neat | 2030 | |
| 33 | ↓ -006 | 1 | ↓ | 2134 | |
| 34 | STANDARD | | 3ul/5ml | 2238 8020 602 SORE | |
| 35 | Blank | | ↓ | 2342 8020 602 SORE | |
| 36 | 94016499-007 | | 5ml neat | 11/5/94 0046 602 SORE | |
| 37 | 94016498-002S | 1 | 5ml | 0149 Purge B 602 SORE | |
| 38 | ↓ 002T | 1 | ↓ | 0252 ↓ | |
| 39 | SP Blank | | 3ul/5ml | 1805 SP. P.B. + 602 sum | |
| 40 | SP Blank DUP | | ↓ | 1909 P.B. spike + 602 sum | |
| 41 | 93126499-006 | | 5ml neat | 2013 602 sum | |
| 42 | -004 | 5 | 1ul/5ml | 2117 602 sum | |
| 43 | -005 | 10 | 500ul/5ml | 2222 602 sum | |
| 44 | ↓ -007 | 10 | 500ul/5ml | 2326 602 sum | |
| 45 | STANDARD | | 3ul/5ml | 11/6/94 0030 8020 + 602 sum | |
| 46 | Blank | | ↓ | 0914 602 sum | |
| 47 | 94016499-004 | 50 | 100ul/5ml | 1034 | |

Reviewed: Kimberly C. Brown

Date: 1-7-94

Extraction Date: 12/30/93

Western-Gulf Coast Laboratories, Inc.
GC/VOA Extraction Record

Test Code: 08620

Page #: 150
Batch #: 94GV0548
Analyst Initials: EXO
Method #: Root
Matrix: water

| RFW # | Sample ID | pH | Initial Volume/Weight | Final Volume | Total Solids | Multiplicators |
|-------|-----------|----|-----------------------|--------------|--------------|--------------------------|
| | | | | | | Surf. Spike Split Chrom. |

A grid diagram consisting of two sets of parallel horizontal lines. The top set of lines is labeled with "5ml" and "5ml" above it. The bottom set of lines is labeled with "1", "1", "1", and "1" from left to right. Handwritten labels are present: "MS1" at the top left, "MS18" and "MS17" below it, "9312L056-002" to the left of the grid, and "1/3" and "1/1" near the top right. On the left side, there are labels "001", "002", "003", "004", and "005". Three arrows point downwards from the top set of lines to the bottom set: one from the center, one from the second line from the left, and one from the third line from the left. A large diagonal line starts from the bottom-left corner and extends towards the center.

Comments: _____

Surrogate: 602 Volume: 3rd Book # / Standard #: 1232-524
SS/MS Solutions: Fluor. S Volume: 3rd Book # / Standard #: 1232-523

Analyst Signature: Kimberly C. Johnson Date: 1-6-94

Reviewer's: Stacy P. Nowak Date: 1-7-94

Extraction Custody Record